

Modern Plumbing



Sears, Roebuck and Co., Chicago



WE GUARANTEE

that each and every article in this catalog is exactly as described and illustrated.

We guarantee that any article purchased from us will satisfy you perfectly; that it will give the service you have a right to expect; that it represents full value for the price you pay.

If for any reason whatever you are dissatisfied with any article purchased from us, we expect you to return it to us at our expense.

We will then exchange it for exactly what you want, or will return your money, including any transportation charges you have paid.

SEARS, ROEBUCK AND CO.
CHICAGO



Our Terms

WE require cash with order. The best ways to send money are in the form of an express money order, postoffice money order, a bank draft, your personal check, or currency in a registered letter. Express and freight rates are on pages 43 and 44 of this book. You'll find the index on the inside back cover page.



This Plumbing Goods Catalog Is Made Up of Pages Taken From Our Big General Catalog Pictured Above

For your convenience we have printed and bound the Plumbing Goods section of our big General Catalog separate from the other pages of the Big Book.

Our Big General Catalog Offers You the Merchandise of All the World

If you have no copy of our big General Catalog, we earnestly advise you to write for one. A copy will be sent free of charge. You will find it at once one of the most entertaining and most profitable books you ever owned. Entertaining because, resting comfortably in your home, you may spend hours in the wonderful array of merchandise shown on its 1638 pages. Profitable because you will save money on every item you buy from it.

Our big General Catalog is literally a great department store. For, as the modern department store is a house of wonders, crowded from cellar to roof with the product of the

world's workers, so is our big General Catalog a book of wonders. For in it are pictured and described goods literally gathered by our buyers from every part of the globe.

Almost everything you can think of which you need—almost every luxury which you may desire—is found there in amazing variety. All is of guaranteed high quality, all at prices which mean worth while savings to you. You shop there with infinite comfort, without effort, in your leisure moments. And you buy with the absolute assurance that you will be wholly satisfied with what you receive.

Ever Ready Water Supply Outfits



Fresh, Pure, Running Water at the Turn of a Faucet

STOP carrying water for the house, for the stock, for the garden. An Ever Ready Water Supply Outfit will force the water through pipes anywhere you want it. The water in the pressure tank, located in your basement or buried in the ground, will not freeze in Winter, or grow warm and stagnant in Summer. The pressure tank furnishes a reliable fire protection, too, for it will lift the water as high as 100 feet if desired.

Easy to Install Ever Ready Tank Outfits

Practically all of the hundreds of outfits we have sold have been put in by our customers themselves. We send full and plain directions for installing and operating. Satisfaction guaranteed or money back without question.

How Much Water Do You Use?

Of course, the size tank to order depends on how much water you use daily and how often it will be convenient for you to pump. The size generally ordered for HAND pumping is a 220-gallon tank outfit like our No. 42N2044½ on the opposite page. On pages 4, 5, 6 and 7 we show numerous power outfits for windmill or engine power. Remember, the average family uses from 75 to 150 gallons of water per day in the house alone.

If your basement, or wherever you wish to place the tank, is not high enough for a vertical tank, we have similar horizontal tanks shown on the following pages.

Our outfits come complete with the fittings shown in the pictures on the following pages. But you will, of course, need pipe running from the tank to your well or other water supply, and to your house fixtures. This must be ordered extra.

How to Figure the Pipe Needed

Our SHALLOW Well outfits are for places where the water in the well, spring or stream is not more than 22 feet below the level where you place the pump. For these outfits you will merely need enough 1¼-inch pipe (No. 42N5711¼, page 23) to reach from pump to within 1 foot of bottom of well; enough 1-inch pipe to run from pump to tank, if these are not set close together, and enough ¾-inch pipe to run from tank to the house fixtures. Also order a 1¼-inch foot valve (No. 42N5670, page 33) for end of pipe in well.

If the water in your well is more than 22 feet below the pump, you need a DEEP Well outfit such as No. 42N2627¼ to No. 42N2632½ on the opposite page. The pump is then placed directly over the well, and the cylinder is lowered into the water. For an outfit of this kind order enough 1¼-inch pipe, No. 42N5711¼, to reach from pump at least 10 feet below low water level if water is deep, or within 1 foot of bottom if water is shallow. Also order enough pump rod (which we supply threaded and coupled at 6¼ cents a foot) to reach from pump to cylinder. If you place your tank any distance from pump, order pipe to reach from pump to tank (1-inch pipe for all hand outfits; 1¼-inch for power driven outfits). Finally order ¾-inch pipe from tank to house fixtures, etc.

Free Advice.

If in doubt on any point, write to us. Our experts will gladly give you any information you wish without charge.

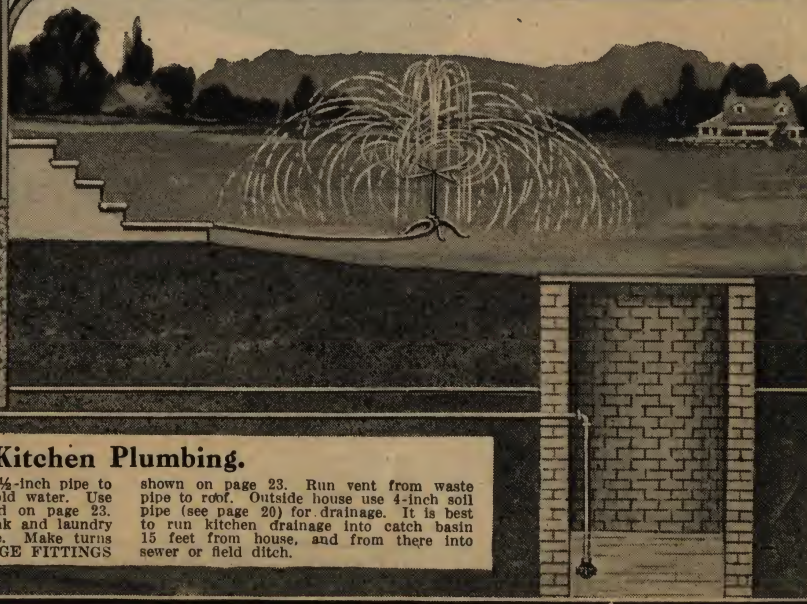


How to Figure Pipe for Kitchen Plumbing.

For SUPPLY pipe run ¾-inch pipe from pressure tank to sink, and to range boiler and return for hot water. Heat water by water front in kitchen range, by coils in furnace, or by Hercules Heater (see page 28). Run ¾-inch pipe from boiler to stove

or heater and return. Run ½-inch pipe to laundry tubs for hot and cold water. Use iron pipe and fittings, listed on page 23. For WASTE pipe from sink and laundry tubs use 1½-inch iron pipe. Make turns and branches with DRAINAGE FITTINGS

shown on page 23. Run vent from waste pipe to roof. Outside house use 4-inch soil pipe (see page 20) for drainage. It is best to run kitchen drainage into catch basin 15 feet from house, and from there into sewer or field ditch.



Furnish Running Water on Your Place



Ever Ready Water Supply Outfits for SHALLOW Wells or Cisterns

For Hand Pumping.

No. 42N2600½ Same as above, using 24-inch by 8-foot vertical black steel tank. Total capacity, 190 gallons; working capacity, 130 gallons. Shipping weight, about 545 pounds.

Price, complete \$ 98.80
Price, complete, with tank galvanized inside and out 129.90

Tank shipped from

After you have selected the outfit be sure to read on this and the opposite page how to figure the pipe needed.

No. 42N2043½ Outfit. One 24-inch by 6-foot vertical black steel pneumatic tank. Total capacity, 140 gallons; working capacity, 100 gallons; one special horizontal double acting force pump with 3-inch brass lined cylinder and hydropneumatic cylinder attached, one 1-inch gate valve, one 1-inch check valve, one water gauge complete, one pressure gauge, one ¾-inch stop and waste cock, one ½-inch hose bibb, together with pipe and fittings cut and threaded, as shown in illustration. Shipping weight, about 470 pounds.

Price, complete \$ 83.10
Price, complete, with tank galvanized inside and out 106.20

No. 42N2044½ Same as above, using 30-inch by 6-foot vertical black steel pneumatic tank. Total capacity, 220 gallons; working capacity, 150 gallons. Shipping weight, about 660 pounds.

Price, complete \$104.30
Price, complete, with tank galvanized inside and out 133.00

No. 42N2046½ Same as above, using 36-inch by 6-foot vertical black steel pneumatic tank. Total capacity, 315 gallons; working capacity, 215 gallons. Shipping weight, about 860 pounds.

Price, complete \$131.15
Price, complete, with tank galvanized inside and out 171.80

No. 42N2045½ Same as above, using 30-inch by 8-foot vertical black steel tank. Total capacity, 295 gallons; working capacity, 200 gallons. Shipping weight, about 775 pounds.

Price, complete \$122.10
Price, complete, with tank galvanized inside and out 156.15

factory in CENTRAL ILLINOIS; pump and trimmings from

No. 42N2602½ Same as above, using 36-inch by 8-foot vertical black steel tank. Total capacity, 420 gallons; working capacity, 280 gallons. Shipping weight, about 1,025 pounds.

Price, complete \$156.85
Price, complete, with tank galvanized inside and out 204.15

our CHICAGO store.

Let US Figure for You.

If you would like US to figure, send us rough drawings of your basement, first and second and any other floors, with dimensions of rooms and height of ceilings. Give height from basement floor to roof and distance from water supply to house. Give us the catalog numbers of the sink, closet, etc., you like, and show just where you want them placed. Send copy of your plumbing law, if there is one. Our experts will then give you an itemized estimate of the cost of fitting your place as you want it fitted.

Ever Ready Water Supply Outfits for DEEP Wells

To Pump by Hand or Windmill.



Any of these outfits furnished with vertical tank if desired. After you have picked out the size you want, be sure to read on this and the opposite page how to figure the pipe needed.

No. 42N2627½ Outfit. One 30-inch by 6-foot horizontal black steel tank. Total capacity, 220 gallons; working capacity, 150 gallons; one special deep well double acting force pump, 2½x16-inch brass body water cylinder, one 3-inch hydropneumatic cylinder, one water gauge complete, one pressure gauge, one 1-inch check valve, one 1-inch gate valve, one ¾-inch stop and waste cock, one ½-inch hose bibb, two tank supports fitted to curvature of tank, together with pipe and fittings, as shown in the illustration. Shipping weight, about 680 pounds.

Price, complete \$124.95
Price, complete, with tank galvanized inside and out 156.20

No. 42N2630½ Same as above, using 30-inch by 8-foot horizontal black steel tank. Total capacity, 295 gallons; working capacity, 200 gallons. Shipping weight, about 915 lbs. Price, complete..... \$146.00

Price, complete, with tank galvanized inside and out 181.10

No. 42N2632½ Same as above, using 36-inch by 8-foot horizontal black steel tank. Total capacity, 420 gallons; working capacity, 280 gallons. Shipping weight, about 1,160 pounds.

Price, complete \$180.65
Price, complete, with tank galvanized inside and out 227.90

No. 42N2628½ Same as above, using 24-inch by 10-foot horizontal black steel tank. Total capacity, 235 gallons; working capacity, 160 gallons. Shipping weight, about 760 pounds. Price, complete..... \$132.50

Price, complete, with tank galvanized inside and out 167.50

No. 42N2087½ Same as above, using 36-inch by 6-foot horizontal black steel tank. Total capacity, 315 gallons; working capacity, 210 gallons. Shipping weight, about 895 lbs. Price, complete..... \$155.45

Price, complete, with tank galvanized inside and out 196.00

No. 42N2634½ Same as above, using 36-inch by 10-foot horizontal black steel tank. Total capacity, 525 gallons; working capacity, 350 gallons. Shipping weight, about 1,325 pounds.

Price, complete \$202.25

Price, complete, with tank galvanized inside and out 258.30

With 2½x18-inch brass body cylinder with ball valves, \$2.25 extra.

The tanks are shipped from factory in CENTRAL ILLINOIS; pump and trimmings from our CHICAGO store.

How to Figure Pipe for Bathroom Plumbing.

For SUPPLY pipe, both hot and cold, to bathtub use ½-inch iron pipe. Use ¾-inch pipe to wash bowl and to closet. Iron pipe and fittings on page 23.

For CLOSET WASTE use 4-inch soil pipe and fittings shown on page 20. Run pipe up to roof for vent. Connect closet to upright stack with tee branch. No. 42N1583½ on page 20 and closet bend No. 42N1902½ on page 20. Into the bend connect the 1½-inch iron pipe

you should use for waste from bathtub and wash bowl. Use DRAINAGE FITTINGS (elbows, tees, etc.) for the 1½-inch pipe. When there is no sewer or stream to take the closet waste, build a septic or "scum" tank. On request we will send full directions for building this tank.

Tools for Handling Pipe.

See pages 26 and 27 for tools for wrought pipe. We

suggest pipe vise No. 42N5970½; one No. 1 and one No. 2 pipe cutter No. 42N5996; stock and dies No. 42N6014; stock and dies No. 42N6016½; and one or two wrenches No. 42N6149.

Material needed for calking soil pipe on pages 21 and 27. We suggest melting pot No. 42N1789, 3-inch ladle No. 42N1780; yarning iron No. 42N1825; calking chisel No. 42N1831; furnace No. 42N1768½.

EVER READY WATER SUPPLY OUTFITS

Ever Ready Water Supply Outfits are shipped from our Chicago store, except the tanks, which are shipped direct from factory in Central Illinois.

\$104²⁵

Capacity, 150 Gallons. Tank Sets Horizontally.



For SHALLOW Wells or Cisterns To Pump by Hand

After you have selected an outfit be sure to read on page 2 how to figure the pipe needed.

OUTFIT No. 42N2605 1/2

One 30-inch by 6-foot horizontal black steel tank. Total capacity, 220 gallons; working capacity, 150 gallons; one special horizontal double acting force pump with 3-inch brass lined cylinder and hydro-pneumatic cylinder attached, one 1-inch gate valve, one 1-inch check valve, one water gauge complete, one pressure gauge, one 3/4-inch stop and waste cock, one 1/2-inch hose bibb, two tank supports fitted to curvature of tank, together with pipe and fittings cut and threaded, as shown in illustration. Shipping weight, about 575 pounds.

Price, complete.....\$104.95
Price, complete, with tank galvanized inside and out.....136.20

OUTFIT No. 42N2606 1/2

Same as above, using 24-inch by 10-foot horizontal black steel tank. Total capacity, 235 gallons; working capacity, 160 gallons. Shipping weight, about 655 pounds.

Price, complete.....\$112.70
Price, complete, with tank galvanized inside and out.....147.60

OUTFIT No. 42N2608 1/2

Same as above, using 30-inch by 8-foot horizontal black steel tank. Total capacity, 295 gallons; working capacity, 200 gallons. Shipping weight, about 810 pounds.

Price, complete.....\$126.00
Price, complete, with tank galvanized inside and out.....160.75

OUTFIT No. 42N2610 1/2

Same as above, using 30-inch by 10-foot horizontal black steel tank. Total capacity, 365 gallons; working capacity, 250 gallons. Shipping weight, about 925 pounds.

Price, complete.....\$144.50
Price, complete, with tank galvanized inside and out.....188.10

OUTFIT No. 42N2612 1/2

Same as above, using 36-inch by 8-foot horizontal black steel tank. Total capacity, 420 gallons; working capacity, 280 gallons. Shipping weight, about 1,060 pounds.

Price, complete.....\$161.25
Price, complete, with tank galvanized inside and out.....208.70

OUTFIT No. 42N2614 1/2

Same as above, using 36-inch by 10-foot horizontal black steel tank. Total capacity, 525 gallons; working capacity, 350 gallons. Shipping weight, about 1,220 pounds.

Price, complete.....\$182.45
Price, complete, with tank galvanized inside and out.....238.55

\$111³⁰

For Cisterns or SHALLOW Wells

To Pump by Hand or Windmill.

Capacity, 150 Gallons.

OUTFIT No. 42N2617 1/2

One 30-inch by 6-foot horizontal black steel tank. Total capacity, 220 gallons; working capacity, 150 gallons; one special double acting windmill force pump, one 2 1/2 x 16-inch brass body water cylinder, one special intake air valve, one 1-inch gate valve, one 1-inch check valve, one water gauge complete, one pressure gauge, one 3/4-inch stop and waste cock, one 1/2-inch hose bibb, two tank supports fitted to curvature of tank, together with pipe and fittings cut and fitted, as shown on inside of basement wall in the illustration. Shipping weight, about 655 pounds.

Price, complete.....\$111.30
Price, complete, with tank galvanized inside and out.....\$142.25

OUTFIT No. 42N2618 1/2

Same as above, using 24-inch by 10-foot horizontal black steel tank. Total capacity, 235 gallons; working capacity, 160 gallons. Shipping wt., about 735 pounds.

Price, complete.....\$118.95
Price, complete, with tank galvanized inside and out.....\$153.70

OUTFIT No. 42N2620 1/2

Same as above, using 30-inch by 8-foot horizontal black steel tank. Total capacity, 295 gallons; working capacity, 200 gallons. Shipping wt., about 890 pounds.

Price, complete.....\$132.15
Price, complete, with tank galvanized inside and out.....\$167.00

OUTFIT No. 42N2621 1/2

Same as above, using 36-inch by 6-foot horizontal black steel tank. Total capacity, 315 gallons; working capacity, 210 gallons. Shipping wt., about 970 pounds.

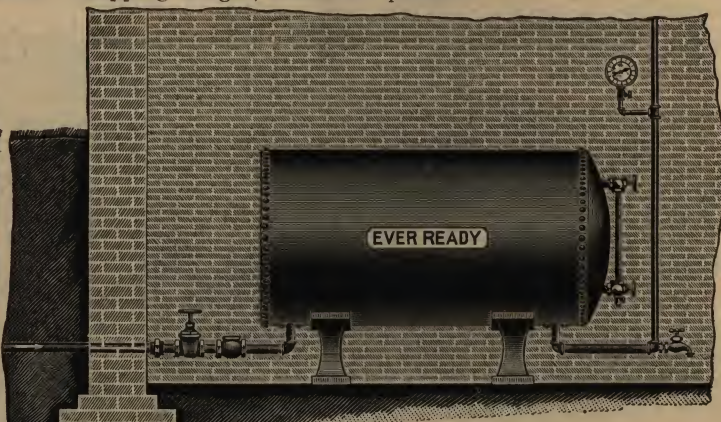
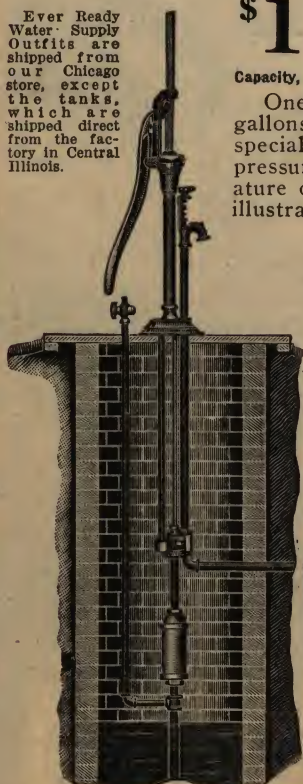
Price, complete.....\$141.85
Price, complete, with tank galvanized inside and out.....\$182.45

OUTFIT No. 42N2624 1/2

Same as above, using 36-inch by 10-foot horizontal black steel tank. Total capacity, 525 gallons; working capacity, 350 gallons. Shipping weight, about 1,390 pounds.

Price, complete.....\$188.70
Price, complete, with tank galvanized inside and out.....244.75

Ever Ready Water Supply Outfits are shipped from our Chicago store, except the tanks, which are shipped direct from the factory in Central Illinois.



Any of these outfits furnished with Vertical Tank if desired.

After you have selected your outfit, be sure to read on page 2 how to figure the pipe needed.

OUTFIT No. 42N2622 1/2

Same as above, using 36-inch by 8-foot horizontal black steel tank. Total capacity, 420 gallons; working capacity, 280 gallons. Shipping weight, about 1,140 pounds.

Price, complete.....\$167.55
Price, complete, with tank galvanized inside and out.....214.85

EVER READY WATER SUPPLY OUTFITS

For Deep Wells

Horizontal Tank, With Automatic Windmill Regulator Pump to Be Operated by Hand or Windmill.

A Vertical Tank of the Same Size Will Be Substituted in Any Outfit if Desired.

After You Have Picked Out the Size You Wish, Be Sure to Read How to Figure the Pipe, on Page 2.

These outfits are similar to those shown on page 4, with the exception that a windmill regulator pump is included which automatically starts and stops the windmill, starting the mill when the pressure drops to a certain point, and stopping it when the desired pressure is obtained. By shifting the weight on the lever the pressure can be increased or decreased as desired. The tanks are shipped from the factory in CENTRAL ILLINOIS, and the remainder of the outfits from our CHICAGO store.

OUTFIT No. 42N2637 1/2

One 30-inch by 6-foot horizontal black steel tank. Total capacity, 220 gallons; working capacity, 150 gallons; one special deep well windmill regulator force pump, one 2 1/2 x 16-inch brass body water cylinder, one special 3-inch hydropneumatic cylinder, one water gauge complete, one pressure gauge, one 1-inch gate valve, one 1-inch check valve, one 3/4-inch stop and waste cock, one 1/2-inch hose bibb, two tank supports fitted to curvature of tank, together with the pipe and fittings shown in the illustration. Shipping weight, about 740 pounds.

Price, complete.....\$132.30

Price, complete, with tank galvanized inside and out. 163.35

OUTFIT No. 42N2638 1/2

Same as above, using 24-inch by 10-foot horizontal black steel tank. Total capacity, 235 gallons; working capacity, 160 gallons. Shipping weight, about 820 pounds. Price, complete.....\$140.05

Price, complete, with tank galvanized inside and out 174.80

OUTFIT No. 42N2640 1/2

Same as above, using 30-inch by 8-foot horizontal black steel tank. Total capacity, 295 gallons; working capacity, 200 gallons. Shipping weight, about 975 pounds. Price, complete.....\$153.40

Price, complete, with tank galvanized inside and out..... 190.10

OUTFIT No. 42N2088 1/2

Same as above, using 36-inch by 6-foot horizontal black steel tank. Total capacity, 315 gallons; working capacity, 210 gallons. Shipping weight, about 1,055 pounds.

Price, complete.....\$163.00

Price, complete, with tank galvanized inside and out..... 203.55

OUTFIT No. 42N2642 1/2

Same as above, using 36-inch by 8-foot horizontal black steel tank. Total capacity, 420 gallons; working capacity, 280 gallons. Shipping weight, about 1,220 pounds.

Price, complete.....\$188.80

Price, complete, with tank galvanized inside and out..... 236.00

OUTFIT No. 42N2644 1/2

Same as above, using 36-inch by 10-foot horizontal black steel tank. Total capacity, 525 gallons; working capacity, 350 gallons. Shipping weight, about 1,385 pounds.

Price, complete.....\$209.80

Price, complete, with tank galvanized inside and out..... 266.00

If wanted with 2 1/2 x 18-inch brass body, ball valve cylinder, allow \$2.25 extra.

For Deep Wells

Gasoline Engine, Horizontal Tank and Combination Working Head. Can Also Be Operated by Hand or Windmill.

A Vertical Tank of the Same Size Will Be Substituted in Any Outfit if Desired.

After you have picked out the size you need, be sure to read how to figure pipe on page 2.

If engine is not desired, deduct \$70.60 from the prices shown below.

OUTFIT No. 42N2658 1/2

One 30-inch by 10-foot horizontal black steel tank. Total capacity, 365 gallons; working capacity, 250 gallons; one special deep well working head for heavy duty, back geared 8 to 1; one 3-inch by 16-inch brass body water cylinder, one 3/4-inch hydropneumatic cylinder, one water gauge complete, one pressure gauge, one 1 1/4-inch gate valve, one 1 1/4-inch check valve, one 1-inch water relief valve, one 3/4-inch stop and waste cock, one 1/2-inch hose bibb, two tank supports fitted to curvature of tank; all pipe, fittings and belt shown in illustration; one 2 1/2 horse-power Economy Gasoline Engine, fitted with magneto. Shipping weight, about 1,690 pounds.

Price, complete.....\$246.65

Price, complete, with tank galvanized inside and out..... 290.10

OUTFIT No. 42N2660 1/2

Same as above, using 36-inch by 8-foot horizontal black steel tank. Total capacity, 420 gallons; working capacity, 280 gallons. Shipping weight, about 1,820 pounds.

Price, complete.....\$263.55

Price, complete, with tank galvanized inside and out..... 311.00

OUTFIT No. 42N2662 1/2

Same as above, using 36-inch by 12-foot horizontal black steel tank. Total capacity, 630 gallons; working capacity, 420 gallons. Shipping weight, about 2,145 pounds.

Price, complete.....\$305.80

Price, complete, with tank galvanized inside and out.....\$366.50

OUTFIT No. 42N2664 1/2

Same as above, using 42-inch by 10-foot horizontal black steel tank. Total capacity, 720 gallons; working capacity, 480 gallons. Shipping weight, about 2,580 pounds.

Price, complete.....\$361.70

Price, complete, with tank galvanized inside and out.....\$452.00

If wanted with 3x20-inch brass body, ball valve cylinder, allow \$4.60 extra.

OUTFIT No. 42N2666 1/2

Same as above, using 42-inch by 12-foot horizontal black steel tank. Total capacity, 865 gallons; working capacity, 580 gallons. Shipping weight, about 2,845 pounds.

Price, complete.....\$394.35

Price, complete, with tank galvanized inside and out.....\$498.75

OUTFIT No. 42N2668 1/2

Same as above, using 42-inch by 14-foot horizontal black steel tank. Total capacity, 1,000 gallons; working capacity, 670 gallons. Shipping weight, about 3,110 pounds.

Price, complete.....\$428.65

Price, complete, with tank galvanized inside and out.....\$547.35

For a complete description of our gasoline engines refer to our large General Catalog, or write for our Special Gasoline Engine Catalog.

EVER READY OUTFITS AND ACCESSORIES

Power Ever Ready Water Supply Outfits



Horizontal tanks, operated by gasoline engine. Used where supply is taken from a shallow well, cistern, lake, flowing spring, or any other source where the water is not more than 25 feet below the pump. The pressure tanks are shipped from the factory in Central Illinois, the gasoline engine from Evansville, Ind., and the remainder of the outfits from our Chicago Store.

If engine is not desired deduct \$70.60 from the prices shown below. After selecting outfit, read how to figure pipe on page 2.

OUTFIT No. 42N2646½

One 30-inch by 10-foot horizontal black steel tank. Total capacity, 365 gallons; working capacity, 250 gallons; one Hercules heavy duty double acting force pump, back geared 5 to 1; capacity per hour, 720 gallons; one pressure gauge, one water gauge complete, one 1¼-inch check valve, one 1¼-inch gate valve, one 1-inch water relief valve; one ¾-inch stop and waste cock, one ½-inch hose bibb, two iron tank supports fitted to curvature of tank; all pipe, fittings and belt shown in the illustration; one 2½ horse-power Economy Gasoline Engine. Shipping weight, about 1,695 pounds.

Price, complete.....\$273.25

Price, complete, with tank galvanized inside and out.....\$316.85

OUTFIT No. 42N2652½

Same as above, using 42-inch by 10-foot horizontal black steel tank. Total capacity, 720 gallons; working capacity, 480 gallons. Shipping weight, about 2,585 pounds.

Price, complete.....\$385.10

Price, complete with tank galvanized inside and out..... 474.60

OUTFIT No. 42N2654½

Same as above, using 42-inch by 12-foot horizontal black steel tank. Total capacity, 865 gallons; working capacity, 580 gallons. Shipping weight, about 2,850 pounds.

Price, complete.....\$416.80

Price, complete with tank galvanized inside and out..... 521.95

OUTFIT No. 42N2656½

Same as above, using 42-inch by 14-foot horizontal black steel tank. Total capacity, 1,000 gallons; working capacity, 670 gallons. Shipping weight, about 3,115 pounds.

Price, complete.....\$451.85

Price, complete, with tank galvanized inside and out..... 569.10

For a complete description of our gasoline engines refer to our large General Catalog, or write for our Special Gasoline Engine Catalog.

Read What These Folks Say

Ever Ready Outfit Protection Against Fire.

Struthers, Ohio.
Gentlemen:—Referring to the Water Supply Outfit which you furnished me, I wish to advise that it is giving entire satisfaction. I use the pump jack and gasoline engine, which I bought from you last May, to operate the pump which came with the Ever Ready Outfit. I usually pump enough water into the tank to give me about 40 to 50 pounds pressure. This is sufficient to take care of all my needs and gives me good protection in case of fire, as with this pressure I can throw a stream of water over my house when standing on the ground and using a hose. In the Summer I can sprinkle my lawn to much better advantage than heretofore. I can recommend it most highly, as the water does not become contaminated, as it would do in an open tank. I have the whole outfit—engine, pump, tank and all—in the cellar in the heating furnace room, and thereby have cool water in the Summer and not too cold in the Winter.
Yours truly,
FRANK H. NULMEYER.

Says the Blue Prints and Instructions Furnished With Our Water Supply Outfits Make Installing Very Simple.

Georgiaville, R. I.
Gentlemen:—Some time ago we installed one of your Ever Ready Water Supply Systems and are pleased to advise that we had very little trouble with the putting in of this outfit, as the blue prints and instructions that you sent with same made it a very simple matter indeed. There was no additional expense in installing this system outside the work of putting it in. This outfit has proven to be satisfactory in every respect, and should I know of anybody in this vicinity who desires to install a water system I will certainly recommend the Ever Ready.
Yours truly,
ELMER W. LOOMIS.

Ten to Fifteen Minutes' Pumping Once a Week Is All the Attention Necessary to Keep Our Water Supply Outfit in Operation.

Taylor, S. Dak.
Gentlemen:—The Water Supply Outfit purchased from you last year is giving the best of satisfaction. I did the work of installing the outfit myself and find that any man with a few tools can easily erect one of your Ever Ready Systems. I find that the material in this outfit is of a very good quality, and at the price you ask for this system and the convenience of having hot and cold water always on tap, it seems strange that the majority of farm houses are not supplied with the Ever Ready System. Ten to fifteen minutes' pumping once a week is all the attention required to keep the outfit in operation.
Yours truly,
WM. HARRISON.

Has No Knowledge of Plumbing, but Had No Trouble in Installing Our Ever Ready Water Supply Outfit.

Box 43, Tracy, Conn.
Dear Sirs:—I have your letter of recent date asking me to give my frank opinion as to just what I think of the Water Supply Outfit that you shipped to me about six months ago. I wish to say that it is giving perfect satisfaction and, although I had no knowledge whatever of plumbing, I did not have any trouble with the installation of this outfit, or the range boiler purchased of you, as I found that the instructions and blue prints that you sent me fully covered the putting together of this material. I do not see why this system should not give me as good results fifty years from now as it does today, as it is certainly made of good material throughout.
Yours truly,
JAMES RUSHWORTH.

Operated Our Water Supply Outfit With Ram Very Successfully.

Alto, Ga.
Gentlemen:—The Water Supply Outfit purchased from you has now been in continuous operation about one year. It has given me splendid satisfaction and no trouble whatever. My system is perhaps a little unusual, as both the water and air supply are furnished by a ram. The ram automatically and without attention furnishes all the water needed, and I find there is no difficulty in maintaining a pressure of from 30 to 60 pounds. Once as a test I allowed the pressure to run up to 70 pounds. The relief valve supplied by you allows the water to escape from the tank when the pressure reaches 60 pounds, thus avoiding an excessive pressure on the water pipes and obviating any danger of leaking or bursting pipes. I believe that the successful operation of a tank with a suitable ram should be emphasized and recommended wherever conditions are favorable for the installation of such an outfit. I was advised by others in the business that a ram would not successfully operate a pressure tank under my conditions. I have found, however, that it has been entirely satisfactory in every particular, has given no trouble whatever and is equal to any city water works. There is no comparison between the water as supplied by a pressure tank and the water supplied from an elevated or overhead tank. The air in the tank aerates the water and thereby makes it always fresh, cool and sparkling. Our system has given me excellent service during the past year, and I see no reason why it should not continue to do so for many years to come.
Yours truly,
E. O. WHEELER.

Saved \$65.00 to \$75.00 by Buying Our Water Supply Outfit.

Espsville, Penn.
Gentlemen:—With regard to the Pressure

Outfit I purchased from you, will say that it is the most complete outfit I ever saw. The pressure tank and force pump and in fact the entire system and the bathroom outfit that you shipped to me are all that the most critical person could wish. I purchased all tools necessary for installing the Water Supply System and boiler outfit from you, and found after it was installed that the cost of same, including the tools, was from \$65.00 to \$75.00 less than I could possibly have had it put in for in this vicinity.
Yours truly,
D. L. QUICK.

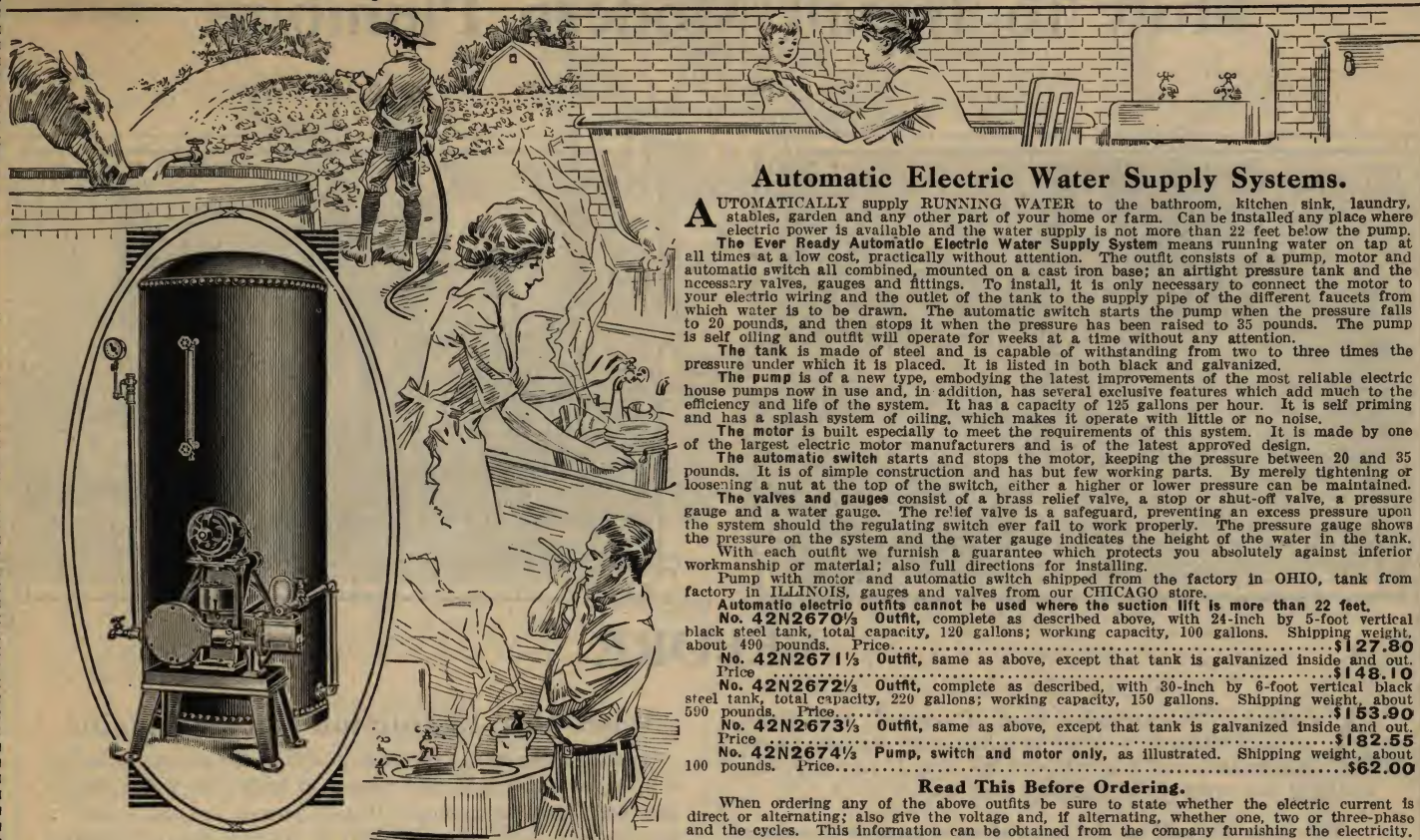
With an Ever Ready Outfit Has No Trouble in Obtaining Sufficient Water for Bathroom With Ten Pounds Pressure on Tank.

Frankfort, Ky.
Gentlemen:—The Water Supply Outfit which I purchased of you last Spring has given perfect satisfaction. I placed the tank in the basement and, although the bathroom is located on the second floor, have no trouble whatever in obtaining a sufficient supply of water in the bathroom when there is but 10 pounds pressure on the tank.
Yours very truly,
H. M. LEONARD.

Made of First Class Material. Sees No Reason Why It Should Not Last a Lifetime.

Elmsford, N. Y.
Gentlemen:—The Water Supply Outfit I bought from you is very satisfactory in every detail. I saved fully \$25.00 by purchasing this outfit from you, and I find that although I have obtained the system at a great deal lower price than other firms quoted me, it is made up of first class material in every respect, and I see no reason why it should not last a lifetime.
Yours truly,
M. GRAF.

Ever Ready Electric Water Supply System



Automatic Electric Water Supply Systems.

AUTOMATICALLY supply RUNNING WATER to the bathroom, kitchen sink, laundry, stables, garden and any other part of your home or farm. Can be installed on any place where electric power is available and the water supply is not more than 22 feet below the pump. The Ever Ready Automatic Electric Water Supply System means running water on tap at all times at a low cost, practically without attention. The outfit consists of a pump, motor and automatic switch all combined, mounted on a cast iron base; an airtight pressure tank and the necessary valves, gauges and fittings. To install, it is only necessary to connect the motor to your electric wiring and the outlet of the tank to the supply pipe of the different faucets from which water is to be drawn. The automatic switch starts the pump when the pressure falls to 20 pounds, and then stops it when the pressure has been raised to 35 pounds. The pump is self oiling and outfit will operate for weeks at a time without any attention.

The tank is made of steel and is capable of withstanding from two to three times the pressure under which it is placed. It is listed in both black and galvanized.

The pump is of a new type, embodying the latest improvements of the most reliable electric house pumps now in use and, in addition, has several exclusive features which add much to the efficiency and life of the system. It has a capacity of 125 gallons per hour. It is self priming and has a splash system of oiling, which makes it operate with little or no noise.

The motor is built especially to meet the requirements of this system. It is made by one of the largest electric motor manufacturers and is of the latest approved design.

The automatic switch starts and stops the motor, keeping the pressure between 20 and 35 pounds. It is of simple construction and has but few working parts. By merely tightening or loosening a nut at the top of the switch, either a higher or lower pressure can be maintained.

The valves and gauges consist of a brass relief valve, a stop or shut-off valve, a pressure gauge and a water gauge. The relief valve is a safeguard, preventing an excess pressure upon the system should the regulating switch ever fail to work properly. The pressure gauge shows the pressure on the system and the water gauge indicates the height of the water in the tank.

With each outfit we furnish a guarantee which protects you absolutely against inferior workmanship or material; also full directions for installing.

Pump with motor and automatic switch shipped from the factory in OHIO, tank from factory in ILLINOIS, gauges and valves from our CHICAGO store.

Automatic electric outfits cannot be used where the suction lift is more than 22 feet.

No. 42N2670 1/2 Outfit, complete as described above, with 24-inch by 5-foot vertical black steel tank, total capacity, 120 gallons; working capacity, 100 gallons. Shipping weight, about 490 pounds. Price.....\$127.80

No. 42N2671 1/2 Outfit, same as above, except that tank is galvanized inside and out. Price.....\$148.10

No. 42N2672 1/2 Outfit, complete as described, with 30-inch by 6-foot vertical black steel tank, total capacity, 220 gallons; working capacity, 150 gallons. Shipping weight, about 590 pounds. Price.....\$153.90

No. 42N2673 1/2 Outfit, same as above, except that tank is galvanized inside and out. Price.....\$182.55

No. 42N2674 1/2 Pump, switch and motor only, as illustrated. Shipping weight, about 100 pounds. Price.....\$62.00

Read This Before Ordering.

When ordering any of the above outfits be sure to state whether the electric current is direct or alternating; also give the voltage and, if alternating, whether one, two or three-phase and the cycles. This information can be obtained from the company furnishing the electricity.

Ever Ready Pressure Tanks

We recommend that our customers order Ever Ready Outfits complete, as our pumps, valves, fittings, etc., are made especially for Water Supply Outfits, and complete outfits as specified and furnished by us will give perfect satisfaction; whereas, trouble will sometimes occur with outfits where tanks are connected with pumps, valves and fittings that are not made especially for this work. For the benefit of our customers, however, who desire tanks only, we give a list of the different sizes always carried in stock at our factory. All prices are for the tanks delivered on the cars at the factory in CENTRAL ILLINOIS.

These tanks are made of flange steel, having a tensile strength of 60,000 pounds; all longitudinal seams are double riveted and the tanks are tested to an air pressure of 125 pounds before leaving our factory. Ever Ready tanks are guaranteed and we will replace any tank that is found defective or that will not hold air.

BE SURE TO STATE WHETHER YOU WANT TANK TO SET HORIZONTALLY OR VERTICALLY.

No. 42N2089 1/2 Ever Ready Steel Tanks.

Diameter, Inches	Length, Feet	Shp. Wt., Abt., Lbs.	Capacity, Gallons	THICKNESS, IN.		PRICE	
				Shell	Head	Black	Galvanized
24	5	350	120	3-16	1-4	\$ 56.00	\$ 76.50
24	6	400	140	3-16	1-4	81.35	84.80
24	10	600	235	3-16	1-4	87.85	123.15
30	6	500	220	3-16	5-16	82.05	111.45
30	8	600	295	3-16	5-16	100.70	135.90
30	10	750	365	3-16	5-16	119.35	163.40
36	6	700	315	3-16	5-16	109.80	150.85
36	8	850	420	3-16	5-16	128.75	183.85
36	10	1,000	525	3-16	5-16	152.40	218.90
36	12	1,150	630	3-16	5-16	176.40	243.90
42	8	1,400	575	1-4	3-8	195.60	277.75
42	10	1,600	720	1-4	3-8	228.65	322.50
42	12	1,850	865	1-4	3-8	261.75	370.30
42	14	2,100	1,000	1-4	3-8	294.75	417.95
48	14	2,500	1,300	1-4	3-8	324.75	492.05
48	16	2,800	1,500	1-4	3-8	384.80	549.05
48	20	3,400	1,880	5-16	1-2	465.25	664.75
48	24	3,900	2,260	5-16	1-2	542.05	770.80

Prices on larger size tanks quoted on application.

Below we show the names of a few who are using our Ever Ready Water Supply Outfits. Why not write to them and ask them what they think of these outfits? Enclose stamps for a reply.

MILTON R. FISHER,
R. No. 2, Ro'fe, Iowa.

A. I. HECKMAN,
608 No. La Salle St.,
Indianapolis, Ind.

C. T. COE,
R. No. 4, Centerburg, Ohio.

C. NICK MUESSIG,
Box 205, Chester, W. Va.

WILBERT J. STAHL,
R. F. D. No. 5, Fostoria, Ohio.

C. B. ROCKHILL,
Blue Moon Poultry Farm,
Edison, Penn.

JULIUS NEITGE,
R. No. 2, Box 2,
Deer Park, Wis.

A. B. PRESTON,
R. No. 1, Box No. 42,
Smith Mill, Minn.

LOUIS RICHARD,
357 McKellar St.,
Chillicothe, Ohio.

FRED. W. EICHHORST,
R. No. 6, Champaign, Ill.

E. C. LAYTON,
Thompson, Penn.

J. L. HEISEY,
East High St.,
Elizabethtown, Penn.

JOHN D. HUDSON,
2016 Manito Place,
Spokane, Wash.

E. HERKLOTZ,
R. No. 1, McKeesport, Penn.

J. W. RICKERS,
B'aham, Minn.

DR. E. T. LARK,
New Hanover, Ill.

W. E. TRIMBUR,
421 Carbon St.,
Butler, Penn.

P. C. RICHARDS,
c/o Warrenton Telephone Exchange,
Warrenton, Va.

F. C. HEASLEY,
R. No. 4, Mercer, Penn.

CHAS. H. BIDWELL,
30 Lawrence Ave.,
West Orange, Conn.

M. HARRIS,
Rowayton, Conn.

O. R. WESTOVER,
R. No. 49,
Schenectady, N. Y.

FRED. L. MILLER,
R. No. 2, Portland, Conn.

JOHN L. SNYDER,
Schenectady, N. Y.

WM. T. TEMPLIN,
R. No. 6, Box No. 98,
Kokomo, Ind.

DR. W. F. BUDDENBERG,
2405 Chapline St.,
Wheeling, W. Va.

ADAM J. REINHART,
R. No. 2,
Hartline, Wash.

ADOLPH REIM,
Hamilton, Mont.

ROBERT KIRSCHT, Jr.,
14 N. New Jersey Ave.,
Atlantic City, N. J.

B. KROEBEL,
West Athens, N. Y.

DR. NEAL KITCHENS,
Bullochville, Ga.

JOHN A. HANSON,
Box No. 42, Plainville, Conn.

JOHN W. ISAACS,
North Dartmouth, Mass.

C. D. GILSON,
Box No. 48, Hebron, Ind.

FREDERICK C. A. MEIER,
1345 Barth Ave.,
Indianapolis, Ind.

CHAS. A. QUACKENBUSH,
Park Ridge, N. J.

JOHN E. RATHBUN,
1520 56th St.,
Brooklyn, N. Y.

IRA W. MOE,
Moe, N. J.

MARK BOWEN,
Box No. 323, 20 Delilah Road,
Pleasantville, N. J.

CHAS. C. CAMPBELL,
R. No. 1, 19th Ave. and 30th St.,
Rock Island, Ill.

MRS. GEO. J. MICHAEL,
R. No. 3, Columbus, Ind.

C. J. LANE,
R. No. 1, Box No. 6,
Brush Prairie, Wash.

C. BRUNDRETT,
Anchor, Texas.

MRS. JOSEPH SNITER,
Box 233, De Witt, Neb.

O. J. KLEIN,
R. No. 8,
Vincennes, Ind.

Our Complete Instruction Book Will Show You How to Install Modern Plumbing



BEFORE

A COMPLETE Instruction Book, illustrated with many actual photographs of the installation of various plumbing fixtures and the laying of the pipe, is yours for the asking if you order your plumbing from us.

This book is based on the installation of modern plumbing on a farm, some views of which are given in the illustrations on this page. The two illustrations above show the methods of drawing water on this place **BEFORE** Modern Plumbing was installed. The two lower illustrations are from photographs which were taken **AFTER** Modern Plumbing had been put in according to our instructions.

Easy to Put In Modern Plumbing

Even if you have never before done any sort of plumbing, it is easy to install with the help of our full and complete directions. Thousands of our customers have done it. The modern method of using *iron* pipe reduces plumbing to the simple operations of cutting and threading pipe and screwing it together. There is no soldering or wiping of joints. Our Instruction Book makes it possible for you to have modern plumbing conveniences even in localities where skilled labor is not easily obtained, for it practically gives you an expert plumber at your elbow throughout the job to show you how everything should be done.

What Our Instruction Book Contains

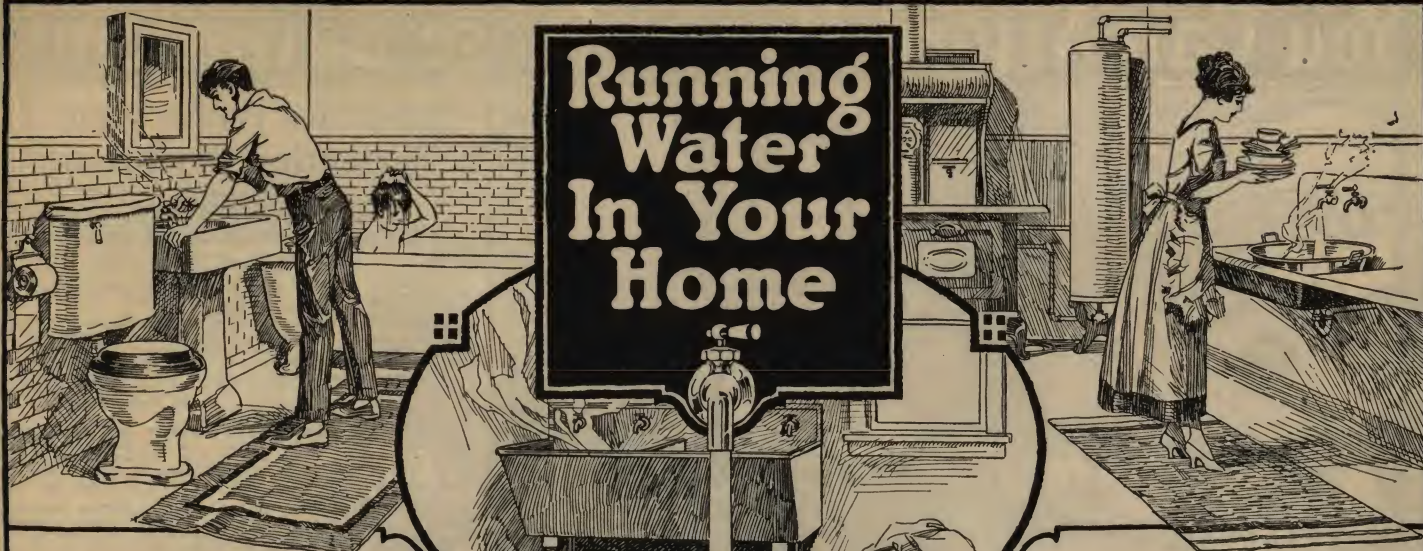
Among other things the book describes in full how to install a pressure water tank and connect it with your water supply and your house plumbing. It tells how to set up a sink, a laundry tub and a range boiler in the kitchen or laundry, and how to install the pipe for them; how to place a water closet, a bathtub and a lavatory (wash bowl) in the bathroom, or any other room. It describes how to connect the range boiler with stove, furnace or special heater for hot water. It shows how to revent the various fixtures in the most approved modern style. It gives full directions for calking soil pipe.

Most important of all, it gives complete directions for the disposal of the waste water outside the house. When there is no sewer or running stream to take care of the waste, the disposal, especially of the water closet waste, requires careful treatment. Our Instruction Book contains simple instructions for building a cesspool and septic tank and for laying out and constructing drainage ditches and filter beds, the latest approved methods of finally disposing of sewage.

This Instruction Book is absolutely free to our plumbing customers.

AFTER





Reasonable in Cost

No need to speak of the convenience, comfort and healthfulness of modern plumbing in your home, with hot and cold water ready at the turn of the faucet. But what of the cost, say you? As you go through the following pages it will be evident that our prices bring the cost well within your means. Although the quality of our plumbing fixtures is of the highest, our prices are exceptionally low.

Easy to Install

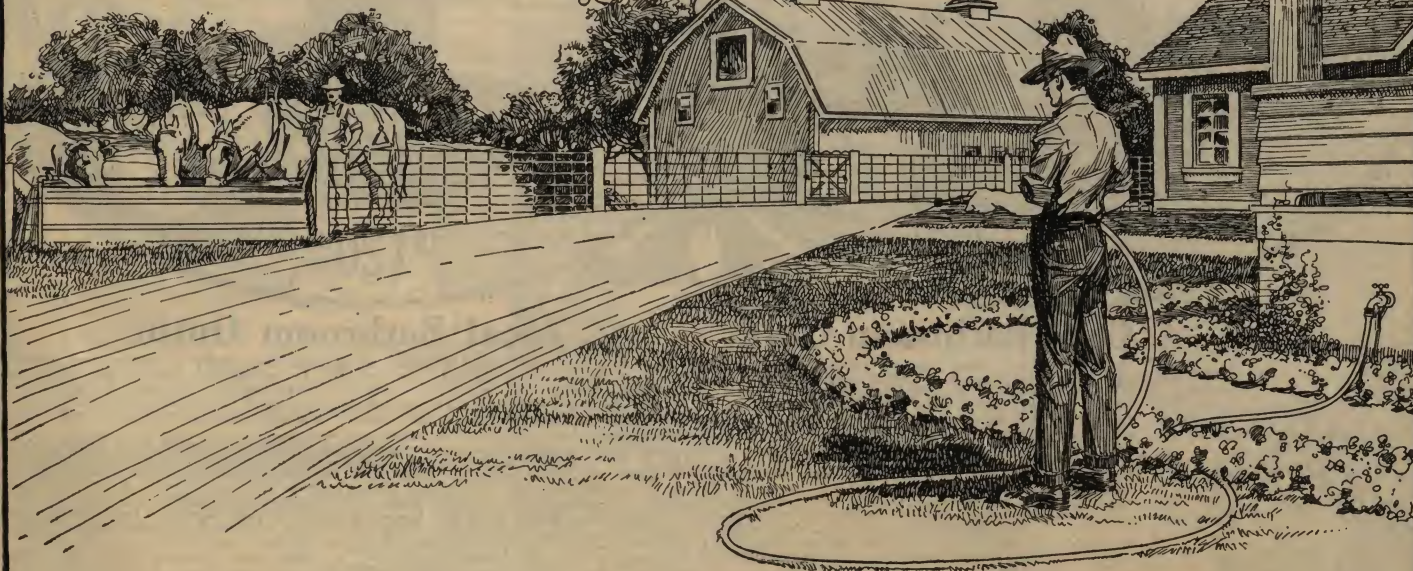
As to the installing of plumbing fixtures in your home, the cost, if you have the work done by a mechanic, is not great. However, thousands of our customers have installed their own plumbing with no other aid than the full and complete Instruction Book which we will send on request with any order.

If just at present you have no water supply system, we highly recommend our Ever Ready Water Supply Outfits shown on pages 4, 5, 6 and 7. Read these pages. You will find them very interesting. Other methods for obtaining running water are to pump it by means of a force pump or a ram from your well or other source of water supply to a tank in the attic or barn. See our pumps and rams on pages 29 to 33.

Let Us Estimate for You

We will gladly give you an estimate on a complete plumbing installation. Just send us rough drawings of your basement, first floor and other floors, with dimensions of the rooms and heights of the ceilings. Give the distance from basement floor to the roof and the distance from the water source to the house. Select from the following pages the sink, closet, etc., you like, giving us the catalog numbers and show on your drawings where you want to place these in the house. If you live in a city, or a community that has a plumbing ordinance, get a copy from your city clerk and send it along. Our plumbing experts will then send you an itemized estimate. This will place you under no obligation to buy. Write today.

In our descriptions of each tub, sink, water closet, etc., we give the size pipe required for both the supply and drain. It is easy to order all you require, if you know how to measure for the pipe.



Modern Plumbing Means Much for the Home

It means just as much for the farm, if not more. It will save the farmer hours of labor. It will place within his reach, in his barns and outbuildings, running water by turning the faucet.

No need to worry about the garden, for with a few feet of hose attached to the faucet all the water that it needs will be ready at any time of the day or night.

The water required for the stock can be had where and when it is needed if running water is available. The thousand and one uses for running water should themselves be reasons enough for getting it installed immediately.

Running water means comfort in the home and on the farm.

You Can Afford One of These Bathrooms

\$69⁷⁰



Our Most Popular Outfit. Perfection Bathroom Outfit

BATHTUB is 5 feet long, 30 inches wide and 16½ inches deep, sufficient to prevent water from splashing over sides. Made of cast iron, coated inside with white porcelain enamel, and has 3-inch roll or turnover rim. Standard Fuller pattern No. 4½ bath cock, 1½-inch connected waste and overflow and two ½-inch offset supply pipes, all of brass, nickel plated and polished.

LAVATORY is 18 inches from front to back, 21 inches wide and has 8-inch high back and roll or turnover rim 4 inches deep. Soap cup cast in top directly above overflow. 1½-inch trap with outlet to wall, two compression cocks or faucets with china tops, one marked "hot," the other "cold," and two ¾-inch supply pipes from cocks to wall. All trimmings of the latest design, made of brass, nicely nickel plated.

CLOSET has siphon washdown pattern bowl of vitreous earthenware, polished grain sawed oak tank and seat. Tank lined with copper, holds 6½ gallons. China handle flush lever, ¾-inch supply pipe to floor, hinges for seat and screws and washers for fastening bowl to floor. All trimmings are nicely nickel plated.

Bathub and lavatory shipped from LAYTON PARK, WIS. Shipping weight, about 390 pounds. Closet shipped from our CHICAGO store. Shipping weight, about 95 lbs.

No. 42N9214½ Perfection Bathroom Outfit (bathub, lavatory and closet), with supply and waste pipes of lavatory to wall, as illustrated. Price.....\$69.70

No. 42N224½ Perfection Bathroom Outfit (bathub, lavatory and closet), with supply and waste pipes of lavatory to floor. Price.....\$70.60

If wanted with waste and supply pipes threaded for connecting to iron pipe, allow \$1.50 extra.

Prices of outfits above do not include bathroom trimmings.

BATHROOM TRIMMINGS.

No. 42N1155 Tumbler Holder and Tumbler. Price. 50c
No. 42N1228 Toilet Paper Holder. Price.....25c
No. 42N1189 Towel Bar, 18-inch. Price.....60c
No. 42N1222 Bath Seat. Price.....60c
For full descriptions, as well as a large assortment of other Bathroom Trimmings, see page 18.



\$88²⁵

Gem Bathroom Outfit

BATHTUB is 5 feet long, 30 inches in diameter and about 16½ inches deep inside. Made of cast iron with a 3-inch roll or turnover rim. Inside of tub and outside of rim glazed with white porcelain enamel. Standard Fuller pattern No. 4½ bath cock, 1½-inch connected waste and overflow and two ½-inch supply pipes, all of brass, nickel plated and polished.

LAVATORY is 18 inches from front to back, 24 inches wide and has a 10-inch high back and deep apron. Made of cast iron with soap cup cast in top. Inside of bowl, top, back and outside of apron glazed with white porcelain enamel. 1½-inch trap with outlet to wall, two compression cocks with china tops, marked "hot" and "cold," and two ¾-inch bottle air chamber supply pipes to wall. All trimmings of brass, nicely nickel plated.

CLOSET has siphon jet bowl and chinaware tank. Seat of well seasoned quarter sawed oak, highly polished, with nickel plated brass hinges. China handle flush lever, nickel plated ¾-inch supply pipe to floor.

Bathub and lavatory shipped from LAYTON PARK, WIS. Shipping weight, about 130 pounds. Closet shipped from our CHICAGO store. Shipping weight, about 130 pounds.

No. 42N9220½ Gem Bathroom Outfit (bathub, lavatory and closet), with supply and waste pipes of lavatory to wall, as illustrated. Price.....\$88.25

No. 42N2220½ Gem Bathroom Outfit (bathub, lavatory and closet), with waste and supply pipes of lavatory to the floor. Price.....\$89.05

If wanted with waste and supply pipes threaded for connecting to iron pipe, allow \$1.50 extra.

Prices of outfits above do not include bathroom trimmings.

BATHROOM TRIMMINGS.

No. 42N1187 Towel Bar, 18-inch. Price.....75c
No. 42N1140 Soap Dish for tub. Price.....50c
No. 42N1153 Tumbler Holder with Tumbler. Price.....60c
No. 42N1233 Toilet Paper Holder. Price.....45c
No. 42N1222 Bath Seat. Price.....60c
For full descriptions, as well as a large assortment of other Bathroom Trimmings, see page 18.

Ideal Bathroom Outfit

BATHTUB is 5 feet long, 30 inches in diameter and about 17 inches deep inside. Cast iron, with a 3-inch roll rim and base, all cast in one piece, excepting under side of the base, glazed with white porcelain enamel. Standard Fuller pattern No. 4½ bath cock, with china handles, marked "hot" and "cold"; 1½-inch Model waste and overflow, with china top marked "waste," and two ¾-inch supply pipes, all brass, nickel plated.

LAVATORY is of the square pattern, with top measuring 20 inches from front to back and 24 inches wide. Square pedestal. Inside, top and apron of lavatory and pedestal are glazed with white porcelain enamel. 1½-inch trap with outlet to wall; Model waste; two Fuller pattern cocks with china handles, marked "hot" and "cold," and two ¾-inch bottle air chamber supply pipes to wall. All trimmings nickel plated.

CLOSET has siphon bowl of vitreous earthenware and chinaware tank. Seat polished, well seasoned, quarter sawed oak, fitted with nickel plated brass hinges. China handle flush lever, nickel plated; ¾-inch supply pipe from tank to floor.

Bathub and lavatory shipped from LAYTON PARK, WIS. Shipping weight, about 670 pounds. Closet shipped from our CHICAGO store. Shipping weight, about 130 pounds.

No. 42N9217½ Ideal Bathroom Outfit (bathub, lavatory and closet), with supply and waste pipes of lavatory to wall, as illustrated. Price.....\$120.60

No. 42N2217½ Ideal Bathroom Outfit (bathub, lavatory and closet), with supply and waste pipes of lavatory to floor. Price.....\$121.55

If wanted with waste and supply pipes threaded for connecting to iron pipe, allow \$2.00 extra.

Prices of outfits above do not include bathroom trimmings.

BATHROOM TRIMMINGS.

No. 42N1233 Toilet Paper Holder. Price.....45c
No. 42N1168 Soap Dish and Tumbler Holder. Price.....\$1.35
No. 42N1140 Soap Dish for tub. Price.....50c
No. 42N1221 Bath Seat. Price.....72c
No. 42N1201 Bath Stool. Price.....1.40
No. 42N1183 Towel Bar, 18-in. Price. 63c
For full descriptions, as well as a large assortment of other Bathroom Trimmings, see page 18.

PORCELAIN ENAMELED ONE PIECE BATHTUBS



Narrow Bathtubs.

Width over all, 26 inches, with 2-inch roll rim. Height on legs, 22 inches. Depth inside, 16½ inches. Read full description in center of page.

No. 42N185½ Bathtub, complete with trimmings, as illustrated, for lead pipe. If wanted for iron pipe, add 75 cents to prices.
Length, feet... 4½ 5 5½
Shipping wt., about, lbs.. 225 275 325
Price\$32.00 \$32.10 \$34.75

No. 42N184½ Bathtub only, without any trimmings. Shipping weights, same as above.
Length, feet... 4½ 5 5½
Price\$24.00 \$24.10 \$26.75



Extra Finish Bathtubs.

Extra zinc finish on outside. Width over all, 30 inches, with 3-inch roll rim. Height on legs, 22 in. Depth inside, 16½ in. Read description in center of page.

No. 42N191½ Bathtub, complete with trimmings, as illustrated, for lead pipe. If wanted for iron pipe, add 75 cents to prices.
Length, feet... 4½ 5 5½
Shipping wt., about, lbs.. 350 400 470
Price\$44.00 \$44.10 \$46.75

No. 42N186½ Bathtub only, without any trimmings. Shipping weights, same as above.
Length, feet... 4½ 5 5½
Price\$36.00 \$36.10 \$38.75
If Nos. 42N191½ or 42N186½ Bathtubs are wanted with gold bands, allow \$2.25 extra.



Width, 30 inches, 3-inch roll rim. Height, 22 inches.
No. 42N181½ Bathtub, complete with trimmings, as illustrated, for lead pipe. If wanted for iron pipe, add 75 cents to prices.
Length, feet... 4½ 5 5½
Shipping weight, about, pounds..... 250 300 350
Price\$32.00 \$32.10 \$34.75
Length, feet... 5½ 6 6½
Shipping weight, about, pounds..... 350 400 450
Price\$34.75 \$41.00

Depth inside, 16½ inches. Read description below.
No. 42N177½ Bathtub only, without any trimmings. Shipping weight, same as No. 42N181½.
Length, feet... 4½ 5 5½
Price\$24.00 \$24.10 \$26.75
Length, feet... 5½ 6 6½
Price\$26.75 \$33.00
Common overflow and waste plug for above bathtubs, for 1½-inch lead pipe, \$1.20; for 1½-inch iron pipe, \$1.95.

There Is Nothing So Invigorating as a Refreshing Bath

It is a pleasure to bathe in a snowy white tub or to take a quick plunge in it upon arising, with the water tempered just enough to make your body tingle and glow with a new vigor, fresh for the day's work. Why not take advantage of these comforts when they cost so little?

Full Description of Bathtubs on this Page.

All the bathtubs on this page are shipped from LAYTON PARK, WIS., except Nos. 42N160½ to 42N163½, steel. They are made of cast iron, porcelain enameled, except the painted steel tubs. The porcelain is guaranteed not to crack, peel or chip.

The Inside and Roll Rim of all cast iron tubs are porcelain enameled. The outside, except in the case of the extra finish tubs (Nos. 42N191½, 42N186½, 42N188, 42N180 and 42N197½), is given a coat of filler. It may be enameled or painted to match the bathroom walls.

Extra Finish Bathtubs Nos. 42N191½ and 42N186½ are finished on the outside by a special process. The surface of the tub is ground smooth and given a number of coats of special zinc enamel. Each coat is rubbed down before the next is applied. The result is a smooth white finish closely

resembling porcelain enamel. Bathtubs Nos. 42N180 and 42N197½ are porcelain enameled inside and out.

Trimmings. When furnished they consist of combination Fuller pattern bath cock, two offset supply pipes, and for the waste either combination waste and overflow with chain and rubber plug, or a Model waste when shown. All trimmings highly nickel plated. They are regularly furnished to connect to lead pipe. If wanted for iron pipe, add 75 cents to prices.

Size of Pipe Connections. All our tubs are fitted for ½-inch supply pipe and 1½-inch waste pipe. For lead pipe see page 1604. For iron pipe and fittings see page 1606.

We do not list seconds, nor do we quote prices on "B" grade fixtures.

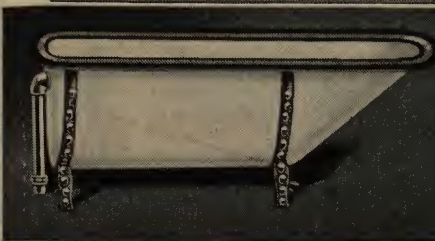
An All White Built-In Bathtub.

The tub is cast iron with three coats of porcelain enamel inside and painted outside and furnished with a nickel plated brass model waste and overflow with a China lifting knob. The supplies are nickel plated brass post supplies, and a nickel plated combination bath cock with indexed China handles. For the reason that this tub sets up against the back and end walls and fits tight to the floor, it is strictly sanitary and easily kept clean, as it will not allow the accumulation of dirt or any other foreign substance at the end or beneath the tub. It is a very attractive and durable fixture, greatly adds to beautifying the bathroom, and is also designed for different conditions as it can be fitted either right or left hand. State which is wanted.

No. 42N188 Bathtub, complete with trimmings, as illustrated, for lead pipe. The above tub can be furnished with fittings threaded for iron pipe for 75 cents extra.

Length of tub, feet... 4½ 5 5½
Weight, pounds..... 450 510 590
Price\$42.30 \$45.10 \$47.90

No. 42N180 Same as above except tub is enameled inside and outside.
Length of tub, feet... 4½ 5 5½
Price\$57.30 \$60.10 \$62.90



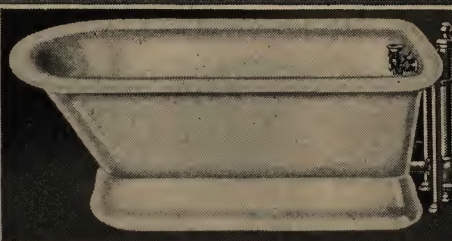
Enamel Painted Steel Bathtubs.

Made of sheet steel, painted outside, with white enamel on inside. Has 3-inch wood rim, varnished. Nickel plated waste and overflow, and rubber plug. Tubs fitted for No. 4½ Fuller bath cock, but these not furnished at prices quoted. Shipped from DETROIT, MICH. Wt., about 90 lbs.

No. 42N160½ Size, 4 feet 6 inches. Price, \$ 9.00
No. 42N161½ Size, 5 feet. Price,..... 9.40
No. 42N162½ Size, 5 feet 6 inches. Price,..... 9.80
No. 42N163½ Size, 6 feet. Price,..... 10.20

For Bath Cocks see No. 42N1302 and No. 42N1307 on page 1602.

Tailpiece on tubs threaded for 1-in. iron pipe connection.



Porcelain Enameled Bathtub With Base.

Tub and base cast all in one piece and porcelain enameled inside and out. Model waste. Width over all, 30 inches; 3-inch roll rim. Height, 22 inches. Depth inside, 16½ inches. Read full description in center of this page.

No. 42N197½ Bathtub, complete with trimmings, as illustrated, for lead pipe. If wanted for iron pipe, add 75 cents to prices.

Length, feet... 4½ 5 5½
Shipping weight, about, lbs. 410 470 550
Price\$49.00 \$49.10 \$51.75

Prices on SITZ Bathtubs will be furnished on application.



Bathtub With Model Waste.

Twenty-two inches high on legs, with 3-inch roll rim; width over all, 30 inches; depth inside, 16½ inches. Model waste. Read full description in center of page.

No. 42N183½ Bathtub, complete with trimmings, as illustrated, for lead pipe. If wanted for iron pipe, add 75 cents to prices.

Length of tub, feet... 4½ 5 5½ 6
Shpg. wt., abt., lbs. 250 300 350 400
Price\$40.15 \$40.20 \$43.45 \$51.00

PORCELAIN ENAMELED LAVATORIES

Half Circle Lavatory.
17x19 in., with 10x14 in. bowl. Back, 6 in. high. Shipping weight, about 60 lbs. Read full description below.

No. 42N39001½ Lavatory, complete with trimmings, as illustrated, waste and supply pipes to wall, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$12.40

Enameled inside and outside. Price.....\$14.10
No. 42N49001½ Lavatory, with trimmings, as illustrated, waste and supplies to floor, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$13.25
Enameled inside and outside. Price.....\$15.15
No. 42N9000½ Lavatory only, with waste plug with coupling, chain and chain stay. Threaded for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$6.35
Enameled inside and outside. Price.....\$8.15

Half Circle Lavatory With Apron, Model Waste and Air Chamber Supplies.
18x21 in., with 10x14-in. bowl. Back, 8 in. high. Shpg. wt., about 90 lbs. Read full description below.

No. 42N39056½ Complete with trimmings, waste and supplies to wall, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$23.35
Enameled inside and outside. Price.....\$24.80
No. 42N49056½ Complete with trimmings, waste and supplies to floor, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$24.10
Enameled inside and outside. Price.....\$25.60
No. 42N9055½ Lavatory only, with model waste with coupling. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$12.60
Enameled inside and outside. Price.....\$14.20

Half Circle Lavatory With Apron.
18x21 in., with 10x14-in. bowl. Height, back, 8 in. Shipping weight, about 90 pounds. Read full description at right.

No. 42N39051½ Complete with trimmings, as illustrated, waste and supply pipes to wall, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. \$14.95
Enameled inside and outside... 16.95
No. 42N49051½ Complete with trimmings, waste and supply pipes to floor, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. \$15.85
Enameled inside and outside... 17.70
No. 42N9050½ Lavatory only, with waste plug with coupling, chain and chain stay. Threaded for iron pipe, 75c extra. Enameled inside, painted outside. \$ 9.00
Enameled inside and outside... 10.90

Square Lavatory With Apron and Air Chamber Supply Pipes.

18x24 in., with 11x15-in. bowl. Back, 10 in. high. Shipping wt., about 110 lbs. Read full description below.

No. 42N39061½ Lavatory, complete with trimmings, as illustrated, waste and supply pipes to wall, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$19.90
Enameled inside and outside. 21.95
No. 42N49061½ Lavatory, with trimmings, waste and supplies to floor, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$20.70
Enameled inside and outside... 23.00
No. 42N9060½ Lavatory only, with waste plug with coupling, chain and chain stay. Fitted for iron pipe, 75c extra. Enameled inside, painted outside. Price.....\$12.25
Enameled inside and outside... 14.40

Square Lavatory With Apron, Model Waste and Bottle Air Chamber Supply Pipes.

18x24 in., with 11x15-in. bowl. Back, 10 in. high. Shpg. wt., about 110 lbs. Read full description below.

No. 42N3906½ Complete with trimmings, as shown, waste and supplies to wall, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, bronzed outside. Price.....\$24.75
Enameled inside and outside. 26.20
No. 42N4906½ Complete with trimmings, waste and supply pipes to floor, for lead pipe. Fitted for iron pipe, 75c extra. Enameled inside, bronzed outside. Price.....\$25.60
Enameled inside and outside. 27.65
No. 42N9065½ Lavatory only, with model waste with coupling. Threaded for iron pipe, 75c extra. Enameled inside, bronzed outside. Price.....\$15.60
Enameled inside and outside. 17.10

FULL DESCRIPTION OF LAVATORIES.

All shipped from factory in LAYTON PARK, WIS.
All lavatories on this page and the next are made of cast iron cast in one piece (except pedestals, which are separate pieces.) They are white porcelain enameled, which are separate quality material and workmanship throughout. All lavatories, except those fitted with Model waste, are made with depression for holding soap directly above overflow. Overflow channel and strainer are cast as part of the lavatory itself, making it sanitary and easy to keep clean. The lavatories hang on concealed wall

brackets, which hold them firmly in position, making any other support unnecessary.

Trimmings. Two compression cocks, with china tops, marked "Hot" and "Cold," two supply pipes with flanges, trap with flange and adjustable slip joint connections, chain stay, chain and rubber plug, or Model waste, when shown. All trimmings brass, nickel plated. Supply pipes fitted with nickel plated brass compression shut off cocks, for \$2.50 per pair extra. For further information read under "Full Description" on opposite page.

SANITARY DRINKING FOUNTAINS

Porcelain Enameled Sanitary Drinking Fountain.

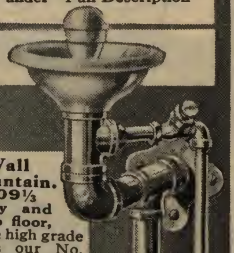
No. 42N9208½ Bowl and pedestal are in one piece, enameled with white porcelain. Bowl is 12 inches wide. Has nickel plated brass bubbling cup with filter, concealed galvanized iron supply and waste pipes and self closing valve with china handle. Fitted for ½-inch supply and 1½-inch drain pipes. Shipping weight, about 140 pounds. 30 inches high...\$20.90
36 inches high... 21.65



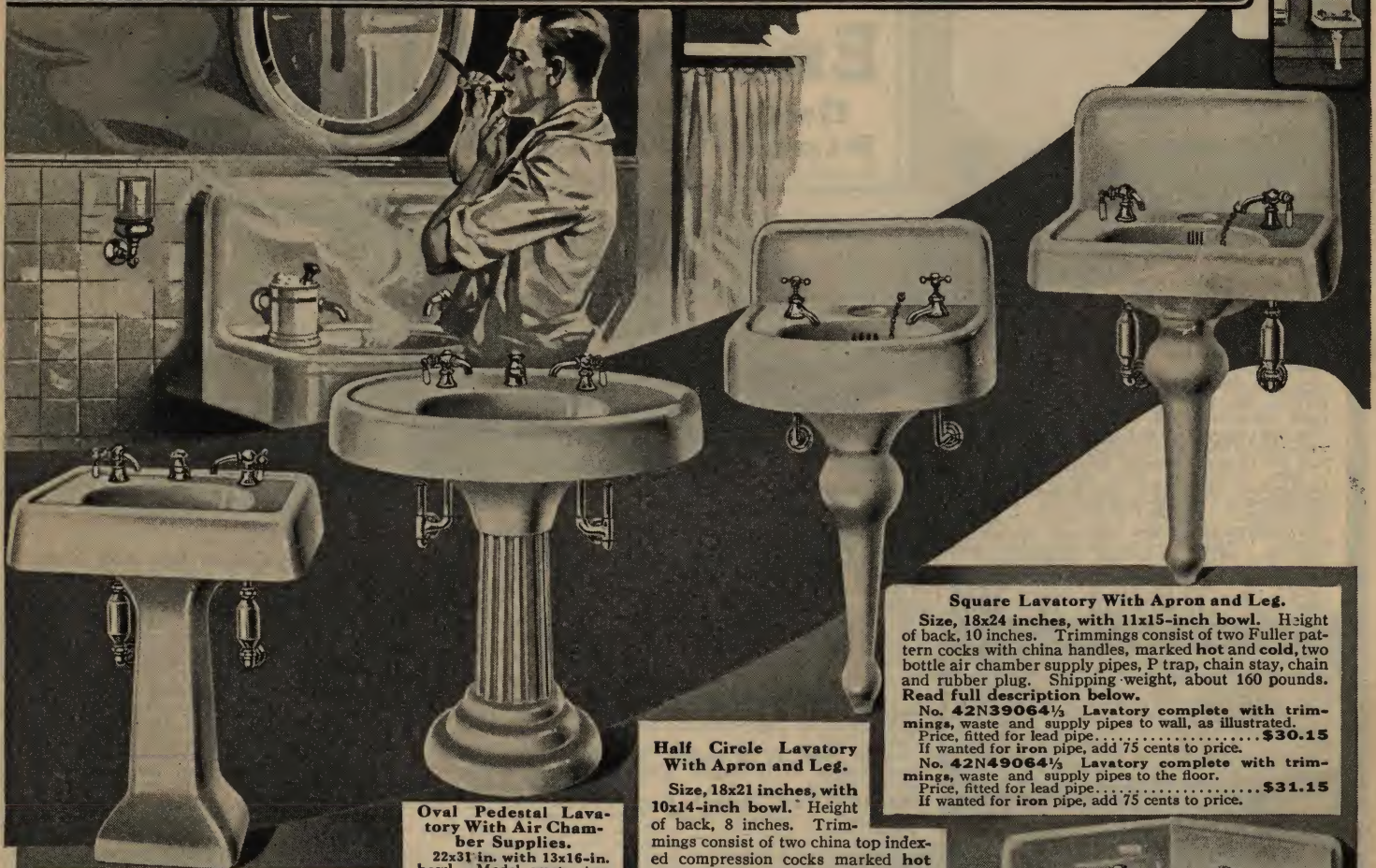
You owe it to your community to insist on sanitary drinking fountains in your schools, factories and shops—wherever a large number of persons must be supplied with drinking water. Everybody is entitled to fresh, pure, clean water—not water taken from a glass or cup from which many others have been drinking.

Sanitary Wall Drinking Fountain.

No. 42N9209½ With supply and waste pipes to floor, as shown. Same high grade construction as our No. 42N9208½ Fountain. Fastens to wall and is fitted with hand self closing valve instead of floor valve. Prices are for fountain complete, with valve as illustrated. Diameter of bowl, 9 inches; depth inside, 3 inches; height over all, 30 inches. Fitted for 1½-inch drain and ½-inch supply. Shpg. wt., about 30 lbs. Bowl enameled inside, painted outside \$10.90
Bowl enameled inside and outside. \$11.85



HANDSOME, SANITARY, EASY TO CLEAN



Square Pedestal Lavatory With Bottle Air Chamber Supplies.

Size, 20x24 inches, with 11x15-inch bowl. Trimmings consist of two Fuller pattern cocks with china handles indexed hot and cold, two air chamber supply pipes, P trap and nickel plated Model waste, as illustrated, waste and supply pipes to floor. Shpg. wt., about 200 lbs. Read full description below.

No. 42N39070½ Complete with trimmings, as illustrated, waste and supply pipes to wall. Price, fitted for lead pipe,.....\$35.25

If wanted for iron pipe, add 75 cents.

No. 42N49070½ Complete with trimmings, as illustrated, waste and supply pipes to the floor. Price, fitted for lead pipe,.....\$36.20

If wanted for iron pipe, add 75 cents.

Oval Pedestal Lavatory With Air Chamber Supplies.

22x31 in. with 13x16-in. bowl. Model waste, two Fuller pattern cocks with china handles indexed hot and cold, two offset air chamber supply pipes and P trap. Shipping weight, about 180 lbs. Read full description below.

No. 42N39069½ Complete with trimmings, as illustrated, waste and supply pipes to wall. Fitted for iron pipe, 75 cents extra.

Price, fitted for lead pipe,.....\$36.95

No. 42N49069½ Complete with trimmings, waste and supplies to floor. Fitted for iron pipe, 75 cents extra.

Price, fitted for lead pipe,.....\$37.85

Half Circle Lavatory With Apron and Leg.

Size, 18x21 inches, with 10x14-inch bowl. Height of back, 8 inches. Trimmings consist of two china top indexed compression cocks marked hot and cold, two supply pipes, P trap, chain stay, chain and rubber plug. Shipping wt., about 130 lbs. Read full description below.

No. 42N39053½ Lavatory complete with trimmings, as illustrated, waste and supply pipes to wall. Price, fitted for lead pipe,.....\$24.50

If wanted for iron pipe, add 75 cents to price.

No. 42N49053½ Lavatory complete with trimmings, waste and supply pipes to the floor. Price, fitted for lead pipe,.....\$25.20

If wanted for iron pipe, add 75 cents to price.

Square Lavatory With Apron and Leg.

Size, 18x24 inches, with 11x15-inch bowl. Height of back, 10 inches. Trimmings consist of two Fuller pattern cocks with china handles, marked hot and cold, two bottle air chamber supply pipes, P trap, chain stay, chain and rubber plug. Shipping weight, about 160 pounds. Read full description below.

No. 42N39064½ Lavatory complete with trimmings, waste and supply pipes to wall, as illustrated. Price, fitted for lead pipe,.....\$30.15

If wanted for iron pipe, add 75 cents to price.

No. 42N49064½ Lavatory complete with trimmings, waste and supply pipes to the floor. Price, fitted for lead pipe,.....\$31.15

If wanted for iron pipe, add 75 cents to price.

Full Description of Lavatories.

Also read under "Full Description" on opposite page.

The Model waste is a device for stopping the waste opening without rubber stopper. It also prevents bowl from filling above a certain point. Made of brass, nickel plated, with china top knob marked "Waste." A half turn of knob raises or lowers plunger, opening or closing waste outlet.

Lavatories Only, as listed, consist of lavatory, with nickel plated brass waste plug with coupling, chain and chain stay, or with Model waste when shown. They do

not include any other trimmings. The waste plug will be threaded for iron pipe for 25 cents extra.

The Pedestal Lavatories. Those with pedestal or leg are cast in one piece, except the pedestal, which is separate. The inside, back, apron and leg are porcelain enameled; the under side is painted.

Pipe Connections. Lavatories regularly fitted for ¾-inch lead supply and 1¼-inch lead waste pipe. Can be furnished threaded for iron pipe for 75 cents extra.

For Lead Pipe see page 21; for Iron Pipe and Fittings see page 23. We do not list seconds nor do we quote prices on "B" grade fixtures.

Corner Lavatory.

Length on sides, 16½ in. Bowl, 10x14 in. Back, 6 in. high. Shpg. wt., abt. 60 lbs. Read full description.

No. 42N39026½ Lavatory complete with trimmings, waste and supply pipes to wall, as shown, for lead pipe. Fitted for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$13.70

No. 42N49026½ Lavatory complete with trimmings, waste and supplies to floor, for lead pipe. Fitted for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$14.55

Enameled inside and outside. Price,.....\$16.35

No. 42N9025½ Lavatory only, with waste plug with coupling, chain and chain stay. Threaded for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$7.70

Enameled inside and outside. Price,.....\$9.55

Corner Lavatory With Apron, Model Waste and Air Chamber Supply Pipes.

Length on sides, 20 in. Bowl, 11x15 in. Back, 8 in. high. Shpg. wt., abt. 90 lbs. Full description above.

No. 42N39046½ Lavatory complete with trimmings, waste and supply pipes to wall, as shown, for lead pipe. Fitted for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$24.15

Enameled inside and outside. Price,.....\$26.45

No. 42N49046½ Lavatory complete with trimmings, waste and supply pipes to floor, for lead pipe. Fitted for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$24.95

Enameled inside and outside. Price,.....\$27.25

No. 42N9045½ Lavatory only, with Model waste with coupling. Threaded for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$15.55

Enameled inside and outside. Price,.....\$16.45

Corner Lavatory With Apron and Air Chamber Supply Pipes.

Length on sides, 20 in. Bowl, 11x15 in. Back, 8 in. high. Shpg. wt., abt. 90 lbs. Full description above.

No. 42N39041½ Complete with trimmings, waste and supply pipes to wall, as shown, for lead pipe. Fitted for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$19.80

Enameled inside and outside. Price,.....\$21.95

No. 42N49041½ Lavatory complete with trimmings, waste and supply pipes to floor, for lead pipe. Fitted for iron pipe, 75 cents extra.

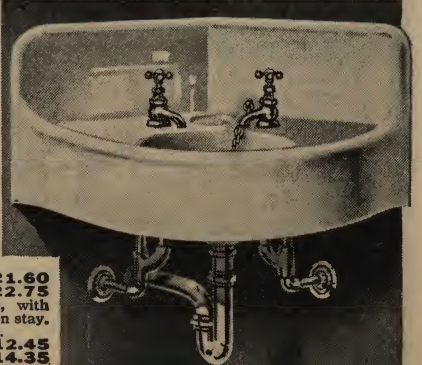
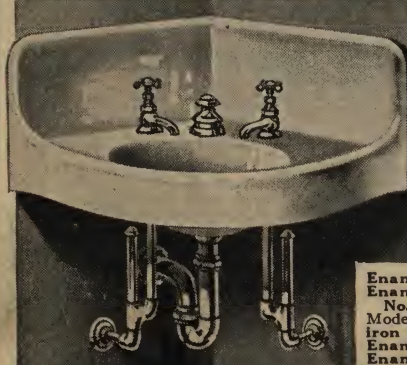
Enameled inside, painted outside. Price,.....\$21.60

Enameled inside and outside. Price,.....\$22.75

No. 42N9040½ Lavatory only, with waste plug with coupling, chain and chain stay. Threaded for iron pipe, 75 cents extra.

Enameled inside, painted outside. Price,.....\$12.45

Enameled inside and outside. Price,.....\$14.35



Porcelain Enameled One Piece Sinks



Roll Rim Sink.

No. 42N39091 1/2 Sink complete with trimmings, as illustrated, waste pipe to wall, for lead pipe. If wanted for iron pipe, add 75 cents to prices.

Size, In.	Shpg. Wt., Lbs.	Price	Size, In.	Shpg. Wt., Lbs.	Price
18x24	105	\$15.35	20x30	125	\$18.65
20x24	115	\$17.95	20x36	135	\$20.70
18x30	115	\$17.65	22x42	150	\$25.75

No. 42N49091 1/2 Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents. Shipping weights, same as above.

Size, In.	Shpg. Wt., Lbs.	Price	Size, In.	Shpg. Wt., Lbs.	Price
18x24 inches		\$16.20	20x30 inches		\$19.45
20x24 inches		\$18.70	20x36 inches		\$21.50
18x30 inches		\$18.50	22x42 inches		\$25.95

No. 42N9090 1/2 Sink only with strainer and tailpiece. If wanted fitted for iron pipe, add 75 cents. Shipping weights, same as above.

Size, In.	Shpg. Wt., Lbs.	Price	Size, In.	Shpg. Wt., Lbs.	Price
18x24	95	\$10.50	20x30	110	\$13.75
20x24	95	\$13.10	20x36	120	\$15.95
18x30	100	\$12.85	22x42	135	\$20.35

Double

Drain Board

Roll Rim Sink With Legs.

No. 42N39127 1/2 Complete with trimmings, waste pipe to the wall, as shown, for lead pipe. If wanted fitted for iron pipe, add 75 cents to price.

Length over all, 62 inches. Size sink, 20x26 inches. Drain boards, 20x18 inches. Shipping weight, about 275 pounds. Price.....\$36.85

No. 42N49127 1/2 Complete with trimmings, waste pipe to the floor, for lead pipe. If wanted fitted for iron pipe, add 75 cents to price. Shipping weight, same as above.

Length over all, 62 inches. Size sink, 20x26 inches. Drain boards, 20x18 inches. Price.....\$37.70

No. 42N9126 1/2 Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents to price.

Length over all, 62 inches. Size sink, 20x26 inches. Drain boards, 20x18 inches. Shipping weight, about 265 pounds. Price.....\$32.20

No. 42N1196 Rubber Drain Board Mats to fit above sink. Shipping weight, about 4 pounds. Price, each.....\$1.35

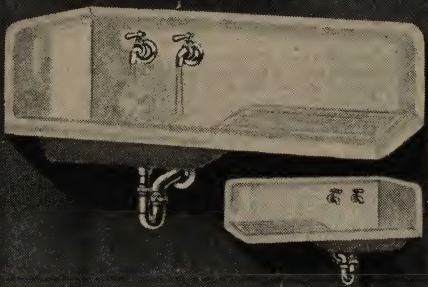
Corner Roll Rim Sinks.

With right or left hand end piece. State which is wanted.

No. 42N39171 1/2 Sink complete with trimmings, waste pipe to wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents extra. Price.....\$20.45
Size, 20x24 in. (Shpg. wt., about 145 lbs.)
Size, 20x30 in. (Shpg. wt., about 165 lbs.)
Size, 20x36 in. (Shpg. wt., about 175 lbs.)

No. 42N49171 1/2 Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents extra. Shpg. wts., same as above. Price.....\$21.00
Size, 20x24 inches. Price.....\$22.15
Size, 20x30 inches. Price.....\$24.00
Size, 20x36 inches. Price.....\$24.00

No. 42N9170 1/2 Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents extra. Price.....\$16.00
Size, 20x24 in. (Shpg. wt., about 135 lbs.)
Size, 20x30 in. (Shpg. wt., about 155 lbs.)
Size, 20x36 in. (Shpg. wt., about 165 lbs.)



Corner Sink.

Furnished either with left hand corner and right hand drain board, or with right hand corner and left hand drain board. State whether wanted with left end piece and right drain board, or the reverse.

No. 42N39113 1/2 Sink complete with trimmings, waste pipe to the wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents to prices.

Entire length.....	44 in.	48 in.	52 in.
Size of sink.....	20x26 in.	20x26 in.	20x28 in.
Shipping wt., about...	210 lbs.	230 lbs.	240 lbs.
Price.....	\$29.65	\$31.00	\$33.60

No. 42N49113 1/2 Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents. Shipping weights, same as above.

Entire length.....	44 in.	48 in.	52 in.
Size of sink.....	20x26 in.	20x26 in.	20x28 in.
Shipping wt., about...	200 lbs.	220 lbs.	230 lbs.
Price.....	\$30.15	\$31.50	\$34.10

No. 42N9112 1/2 Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents.

Entire length.....	44 in.	48 in.	52 in.
Size of sink.....	20x26 in.	20x26 in.	20x28 in.
Shipping wt., about...	200 lbs.	220 lbs.	230 lbs.
Price.....	\$25.25	\$26.55	\$29.25

Have You a Modern, Sanitary One-Piece Enameled Sink in Your Kitchen?

Do you realize how many steps it will save? What a convenience it will be? How easy it is to keep clean? All the sinks shown on this and the opposite page are made of cast iron, in one piece, and are coated with white porcelain enamel, a glass-like substance. They have no cracks, sharp corners or crevices into which grease or dirt can lodge.

All sinks listed on this and the next page, except outfits Nos. 42N9076 1/4, 42N9075 1/4 and 42N9078 1/4, are shipped from LAYTON PARK, WIS., and have 12-inch high back and 2 1/4-inch roll rim. Inside of sink, roll rim, back, end piece and drain board carefully enameled with white porcelain, while under side of sink is painted. First quality in every respect. Porcelain enamel guaranteed not to chip, peel, crack or flake.

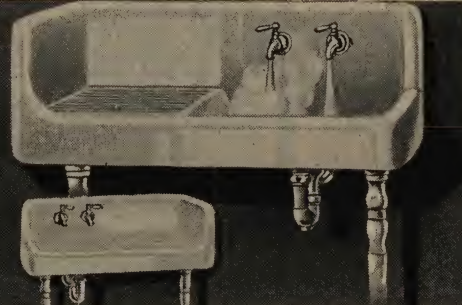
Each sink fitted with concealed cast iron brackets to hang to wall. In addition, sinks No. 42N39103 1/4, No. 42N39123 1/4, No. 42N39134 1/4, No. 42N39127 1/4 and No. 42N39129 1/4 are furnished with two adjustable bronzed iron legs, as they are too heavy to be supported by wall hangers only. If wanted with porcelain enameled legs, allow \$3.00 extra. Any sink furnished with wall brackets only can be fitted with two adjustable bronzed iron legs for \$1.25 extra, or with two adjustable porcelain enameled iron legs for \$4.50 extra.

TRIMMINGS—All sinks listed with trimmings are fitted with two 3/4-inch Fuller pattern bibbs or faucets and a 1 1/2-inch adjustable slip joint trap with a new type strainer. All trimmings are made of nickel plated brass, nicely finished.

SINKS ONLY—Sinks only as listed include a new type nickel plated brass strainer.

PIPE CONNECTIONS—All sinks on this and the next page fitted for 3/4-inch supply and 1 1/2-inch drain lead pipe. Can be furnished threaded for wrought pipe for 75 cents extra.

We do not list seconds nor can we quote prices on "B" grade fixtures.



Corner Apron Sink.

With end piece and drain board on either right or left. State which is wanted.

No. 42N39134 1/2 Complete with trimmings, waste pipe to wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents.

Entire length.....	44 in.	48 in.	52 in.
Size of sink.....	20x26 in.	20x26 in.	20x28 in.
Shipping weight, about...	210 lbs.	240 lbs.	270 lbs.
Price.....	\$35.50	\$40.65	\$45.70

No. 42N49134 1/2 Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents. Shipping weights, same as above.

Entire length.....	44 in.	48 in.	52 in.
Size of sink.....	20x26 in.	20x26 in.	20x28 in.
Shipping weight, about...	200 lbs.	220 lbs.	230 lbs.
Price.....	\$35.95	\$41.05	\$46.10

No. 42N9133 1/2 Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents.

Entire length.....	44 in.	48 in.	52 in.
Size of sink.....	20x26 in.	20x26 in.	20x28 in.
Shipping weight, about...	200 lbs.	230 lbs.	260 lbs.
Price.....	\$30.35	\$35.50	\$40.55

Kitchen Sink Outfit With Cistern Pump.

Gives you fresh water in your home, at very small expense. No. 42N9076 1/4 outfit consists of cast iron sink, porcelain enameled inside; pump with 3-inch cylinder, fitted for 1 1/4-inch iron pipe; three japanned steel brackets; pump board of 1 1/4-inch first quality oak, kiln dried; sink trap of cast iron, tapped for 1 1/4-inch iron pipe. Pump should not be placed more than 20 feet above the water in your cistern or well. For the necessary pipe, order enough 1 1/4-inch iron pipe to reach 1/2-inch iron pipe for the waste water to reach from sink to wherever you wish to run it. Iron pipe will be found on page 21. Easy to install. We furnish complete directions with each outfit. State size.

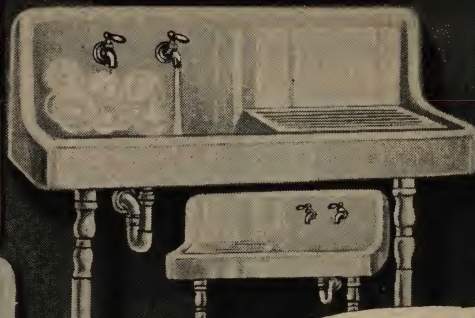
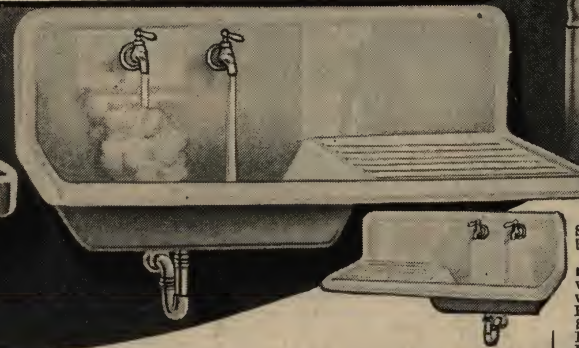
No. 42N9076 1/4	Shipping Wt., About	Price
Outfit complete with 18x30-inch sink....	81 lbs.	\$ 8.50
Outfit complete with 18x36-inch sink....	91 lbs.	10.20
Outfit complete with 20x30-inch sink....	83 lbs.	9.15
Outfit complete with 20x36-inch sink....	95 lbs.	10.95
Outfit complete with 20x40-inch sink....	100 lbs.	13.55

How to Order Pipe for Sinks

All the porcelain enameled sinks on this page and the opposite page are fitted for 3/4-inch lead supply pipe and 1 1/2-inch lead drain pipe. As stated above, we can also furnish them threaded for wrought iron pipe for 75 cents extra added to the prices given. You will find lead pipe and fittings on page 21 and iron pipe and fittings on page 21.

In figuring the supply pipe for cold water, just measure from your nearest cold water pipe, or from your tank and, of course, order the necessary elbows for making turns and whatever other fittings seem necessary. The hot water

Kitchen and Corner Sinks



Double Drain Board Apron Sink With Legs.

No. 42N39129½ Sink complete with trimmings, waste pipe to the wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Length over all, 62 in. Size sink, 20x26 in. Drain boards, 20x18 in. Shipping weight, about 300 pounds.

Price\$47.10

No. 42N49129½ Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe add 75 cents extra.

Length over all, 62 in. Size sink, 20x26 in. Drain boards, 20x18 in. Shipping weight, about 300 pounds.

Price\$47.65

No. 42N9128½ Sink only with strainer and coupling. If wanted threaded for iron pipe, add 75 cents extra.

Length over all, 62 in. Size sink, 20x26 in. Drain boards, 20x18 in. Shipping weight, about 290 pounds.

Price\$42.20

No. 42N1196 Rubber Drain Board Mats to fit above sink. Shipping weight, about 4 pounds.

Price, each.....\$1.35

Roll Rim Sink With Drain Board.

With right or left hand drain board. State which is wanted. No. 42N39101½ Sink complete with trimmings, waste pipe to wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Drain board..... 20x18 in. 20x22 in. 20x24 in.
Shipping weight, about..... 160 lbs. 180 lbs. 200 lbs.

Price\$26.60 \$27.95 \$29.30

No. 42N49101½ Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Shipping weights, same as above. Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Drain board..... 20x18 in. 20x22 in. 20x24 in.

Price\$27.40 \$28.75 \$30.10

No. 42N9100½ Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents to prices.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Drain board..... 20x18 in. 20x22 in. 20x24 in.

Shipping weight, about..... 150 lbs. 170 lbs. 190 lbs.

Price\$21.75 \$23.10 \$24.45

Apron Sink With Drain Board and Legs.

With right or left hand drain board. State which is wanted. No. 42N39103½ Sink complete with trimmings, waste pipe to wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Drain board..... 20x18 in. 20x22 in. 20x24 in.

Shpg. wt., about..... 200 lbs. 220 lbs. 245 lbs.

Price\$32.70 \$36.90 \$42.10

No. 42N49103½ Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Drain board..... 20x18 in. 20x22 in. 20x24 in.

Shpg. wt., about..... 190 lbs. 210 lbs. 235 lbs.

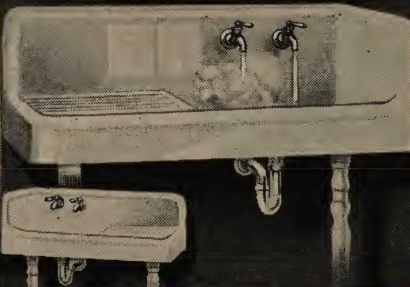
Price\$33.30 \$37.50 \$42.60

No. 42N9102½ Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Drain board..... 20x18 in. 20x22 in. 20x24 in.

Shpg. wt., about..... 190 lbs. 210 lbs. 235 lbs.

Price\$27.70 \$31.65 \$37.00



Corner Apron Sink with left hand end piece and right hand drain board, or the reverse. State choice.

No. 42N39123½ Complete with trimmings, waste pipe to wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Shpg. wt., about..... 210 lbs. 230 lbs. 270 lbs.

Price\$35.50 \$40.80 \$46.10

No. 42N49123½ Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Shpg. wt., about..... 210 lbs. 230 lbs. 270 lbs.

Price\$36.10 \$41.40 \$46.70

No. 42N9122½ Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Shpg. wt., about..... 200 lbs. 230 lbs. 260 lbs.

Price\$30.40 \$35.70 \$40.90



Hercules Kitchen Sink and Pump Outfit.

Waste and Suction Pipe to the Floor Included.

Consists of cast iron sink porcelain enameled inside, 2½-inch brass lined pitcher spout pump, 1½-inch lead sink trap with iron pipe connections, high quality pump board, three brackets, 1½-inch galvanized iron pipe from sink to floor, and 1½-inch galvanized pipe from pump to floor. When ordering include enough 1½-inch iron pipe extra to run from cistern or well to pump, and enough 1½-inch iron pipe to run from under floor where sink is placed to where you want to lead the waste water. Easy to install. Complete directions with each outfit. For iron pipe see page 23. State size.

No. 42N9075¼ Shipping Wt., Price
Outfit complete with 18x30-inch sink... 95 lbs. \$12.20
Outfit complete with 18x36-inch sink... 96 lbs. 12.95
Outfit complete with 20x30-inch sink... 97 lbs. 12.90
Outfit complete with 20x36-inch sink... 101 lbs. 14.50
Outfit complete with 20x40-inch sink... 115 lbs. 17.30



Water May Be Drawn From the Pump Spout, Forced Into an Attic Tank or Used for Sprinkling, Etc.

Perfection Kitchen Sink and Pump Outfit No. 42N9078¼ consists of cast iron sink, porcelain enameled inside, 3-inch brass body cistern force pump with cock spout threaded for hose connection, three sink brackets, oak pump board and nickel plated brass trap fitted for iron pipe connection.

For installing the outfit, order sufficient 1½-inch galvanized pipe to reach from the pump to the cistern or well, enough 1-inch galvanized pipe to run from the top of the pump to the attic tank, if one is to be used, and the proper amount of 1½-inch galvanized pipe to reach from the end of the trap at the floor to where the waste water is to be discharged. For galvanized pipe see page 23. Complete installing directions with each outfit.

No. 42N9078¼ Shipping Wt., Price
Outfit complete with 18x30-inch sink... 92 lbs. \$16.50
Outfit complete with 18x36-inch sink... 96 lbs. 18.50
Outfit complete with 20x30-inch sink... 97 lbs. 17.45
Outfit complete with 20x36-inch sink... 101 lbs. 19.35
Outfit complete with 20x40-inch sink... 111 lbs. 26.85

pipe is measured from your range boiler, or the nearest hot water pipe, in the same way.

The drain pipe is measured from the sink to wherever you will dispose of the waste water. For the drainage elbows and tees, in case you are using iron pipe, use drainage fittings as listed on page 23. These fittings are so constructed that they offer a perfectly smooth passage to the waste and thus prevent stoppage. If you have not already a vent pipe running to the roof of your house, enough pipe should be ordered to run this, as it prevents the water from being sucked out of your sink trap when the sink is being emptied.

If you are in any doubt as to just what fittings to order, we will gladly give you any advice you may wish.

Corner Sink with end piece and drain board on either right or left. State which is wanted.

No. 42N39132½ Sink complete with trimmings, waste pipe to wall, as shown, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Shipping weight, about..... 210 lbs. 230 lbs. 240 lbs.

Price\$29.95 \$31.00 \$33.60

No. 42N49132½ Sink complete with trimmings, waste pipe to floor, for lead pipe. If wanted for iron pipe, add 75 cents extra.

Shipping weights, same as above. Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Drain board..... 20x18 in. 20x22 in. 20x24 in.

Price\$30.45 \$31.50 \$34.10

No. 42N9131½ Sink only with strainer and tailpiece. If wanted threaded for iron pipe, add 75 cents extra.

Entire length..... 44 in. 48 in. 52 in.
Size of sink..... 20x26 in. 20x26 in. 20x28 in.
Shipping weight, about..... 200 lbs. 220 lbs. 230 lbs.

Price\$25.40 \$26.60 \$31.90

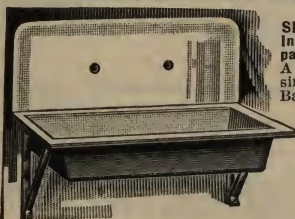
Easy to Install

Even if you have never done any plumbing, you will find it easy to install our fixtures if you are at all handy, and will thus be able to save considerable. We send full directions for installing with our sinks and other fixtures, and thousands of our customers have installed their own plumbing with no other help than this.

For rubber drain board mats see page 18.

Sinks, Floor Drains and Accessories

Sink, Back and Brackets.

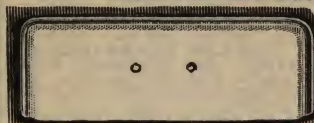


19. Instructions for installing included with each sink outfit.

No. 42N9080 1/4

Size, inches... 18x30 18x36 20x30 20x36 20x40
Shpg. wt., abt. lbs. 88 lbs. 89 lbs. 101 lbs. 110 lbs.
Price\$8.80 \$10.75 \$9.50 \$11.50 \$15.85
Above with waste threaded for iron pipe, 25 cents extra.

Cast Iron Sink Backs.

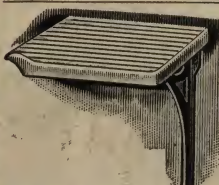


No. 42N465 1/4
Porcelain enamel, for flat rim sinks, 12 inches high and 1 1/2 inches deep. Length, 24 inches.

Shipping weight, about 20 pounds.
Price\$3.60
Length, 30 inches. Shpg. wt., about 34 lbs. Price... 3.80
Length, 36 inches. Shpg. wt., about 37 lbs. Price... 5.65
Length, 40 inches. Shpg. wt., about 40 lbs. Price... 6.35
Length, 42 inches. Shpg. wt., about 44 lbs. Price... 6.75
Length, 48 inches. Shpg. wt., about 50 lbs. Price... 8.45

No. 42N470 1/4 Same as above, 12 inches high and 2 1/2 inches deep.
Length, inches... 24 30 36 40 42 48
Shpg. wt., abt. lbs. 30 38 45 50 55 55
Price\$3.80 \$3.90 \$5.80 \$6.50 \$6.85 \$8.55

No. 42N480 1/4 Same as above, 15 inches high and 2 1/2 inches deep.
Length, inches... 24 30 36 40 42 48
Shpg. wt., abt. lbs. 40 44 50 55 55 55
Price\$4.60 \$5.15 \$6.40 \$7.15



Enameled Iron Drain Boards.

No. 42N9125 1/4 Reversible. With iron bracket. For roll rim sinks. Size, 18x20 inches. Shipping weight, about 45 lbs. Price\$5.15

Size, 18x24 inches. Shipping weight, about 49 lbs. Price\$5.65
Size, 20x20 in. Shpg. wt., about 42 lbs. Price... 5.50
Size, 20x24 in. Shpg. wt., about 61 lbs. Price... 6.10

Steel Sink Brackets.

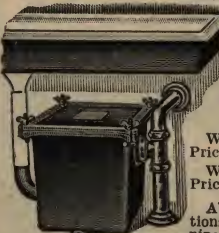


Will fit any sink we carry not having wall hangers. Very neat in appearance. Lower part can be removed while upper part is being fastened to wall. Shipping wt., about 3 lbs. per pair.

No. 42N424 No. 1 Plain, for 16 and 18-inch sinks. Per pair...\$3.25
No. 42N425 No. 2 Plain, for 20-inch sinks and larger. Price, per pair...\$3.50

Kitchen Grease Traps.

Catches the Grease. Preventing It From Clogging Up the Drain Pipe.

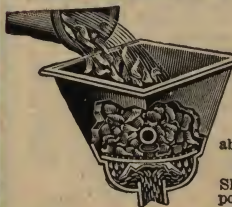


Kitchen Grease Traps. Used where greasy water is dumped into sinks. Cast iron, porcelain enameled inside. Painted outside. Size, about 9 1/2 x 8 1/2 x 9 1/2 inches. Shipping weight, about 70 lbs.

No. 42N700 1/4 With polished brass trimmings. Price\$12.60
With nickel plated trimmings. Price\$13.35

Cast Iron Slop Hopper.

Catches the Slops, Lets the Water Pass Through.



No. 42N9155 1/4 Cast Iron Slop Hopper. Painted or Porcelain Enameled inside.

Painted. Size, 12x12 inches. Shipping weight, about 17 1/2 pounds. Price\$2.60
Enameled. Size, 12x12 inches. Shipping weight, about 19 1/2 pounds. Price\$3.75
Painted. Size, 14x14 inches. Shipping weight, about 21 1/2 pounds. Price\$2.95
Enameled. Size, 14x14 in. Shipping weight, about 24 1/2 pounds. Price\$4.35

Painted. Size, 16x16 inches. Shipping weight, about 33 pounds. Price\$3.25
Enameled. Size, 16x16 inches. Shipping weight, about 35 pounds. Price\$4.85
Any of above with outlet threaded for 1 1/2-inch iron pipe, 50 cents extra.



Cast Iron Kitchen Sinks.

The Old Reliable Cast Iron Flat Rim Sink. Painted inside and out, or white enameled inside and painted outside. Fitted for 1 1/4 or 1 1/2-in. lead pipe, as desired.

Threaded for 1 1/4 or 1 1/2-in. iron pipe, 25 cents extra. State which is wanted. Size, 18x30 inches is generally used. As sinks are cast, dimensions may vary slightly.

No. 42N9085 1/4

Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Painted, Price	Enameled, Price
16x24x6	39	39	\$2.15	\$4.60
18x30x6	55	55	2.50	4.90
18x36x6	59	59	3.55	6.65
20x30x6	60	60	3.25	5.55
20x36x6	63	63	4.10	7.35
20x40x6	72	72	5.10	9.95

Cast Iron Half Circle and Corner Sinks.



No. 42N9130 1/4

With nickel plated strainer. Depth, 6 in.; back, 23 1/2 in.; width, 13 1/2 in. Fitted for 1 1/4 or 1 1/2-in. lead pipe. Shipping wt., abt. 29 lbs. Painted inside and out. Price\$2.60

Porcelain enameled inside. Painted outside. Price.....\$4.00

Above threaded for iron pipe, 25 cents extra.

No. 42N9135 1/4

With nickel plated strainer. Depth, 6 in.; sides, 17 in.; front, 23 1/2 in. Fitted for 1 1/4 or 1 1/2-in. lead pipe. Shipping weight, about 27 pounds. Painted inside and out. Price\$2.60

Enameled inside. Painted outside. Price\$4.00

Above threaded for iron pipe, 25 cents extra.

Covers for Cisterns, Catch Basins or Septic Tanks.



No. 42N1708 1/4 For 18-in. opening. Made of cast iron with ring for lifting and two catches on under side which fasten under lugs in flange, making it necessary to turn cover slightly before it can be raised. Shipping weight, about 50 pounds. Price\$3.75

No. 42N1709 1/4 Same as above, except with holes in cover for siphon chamber of septic tank. Price.\$3.90

Waste Pipe for Sinks.

The waste of all sinks on this page should be connected to the drain with 1 1/4 or 1 1/2-inch iron or lead pipe, or 2-inch soil pipe. For Lead Pipe and Traps see page 21; for Wrought Pipe and Fittings see page 23, and for Soil Pipe and Fittings see page 20.

Steel Sinks Will Not Break.

Wrought Steel Sinks with flat rim. Made from one piece of steel. Superior to cast iron sinks, being stronger, lighter and more durable; fitted for 1 1/4 or 1 1/2-inch lead pipe. With waste fitted for 1 1/4 or 1 1/2-inch iron pipe, 25 cents extra. State which is wanted. Strainer and coupling included. 18x30-inch sink is one most generally used.



No. 42N390 1/4 Painted inside and outside.

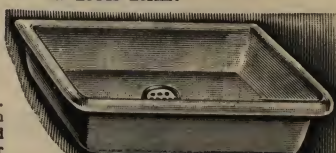
Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price	Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price
16x24x6	10	10	\$2.20	20x30x6	16 1/2	16 1/2	\$3.20
18x30x6	14 1/2	14 1/2	2.70	20x36x6	21	21	3.95
18x36x6	17	17	3.45	20x40x6	22 1/2	22 1/2	4.70

No. 42N391 1/4 Galvanized inside and outside.

Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price	Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price
16x24x6	10	10	\$2.70	20x30x6	17	17	\$3.95
18x30x6	16	16	3.45	20x36x6	22 1/2	22 1/2	4.70
18x36x6	18	18	4.20	20x40x6	24 1/2	24 1/2	5.45

This Is Same Sink as Above With a Roll Rim.

Made of one piece of steel finely finished. Very substantial throughout. Fitted with strainer and coupling for 1 1/4 or 1 1/2-in. lead pipe. Any of the sinks below with waste fitted for 1 1/4 or 1 1/2-inch iron pipe, 25 cents extra. State which is wanted. Can be furnished in six different sizes as shown below. 20x30-inch is one most generally used.



No. 42N392 1/4 Painted inside and outside.

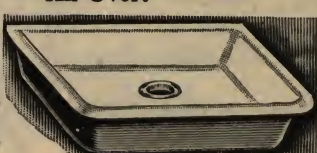
Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price	Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price
16x24x6	10 1/2	10 1/2	\$2.30	20x30x6	18	18	\$3.30
18x30x6	15 1/2	15 1/2	2.80	20x36x6	21 1/2	21 1/2	4.05
18x36x6	19 1/2	19 1/2	3.55	20x40x6	22 1/2	22 1/2	4.80

No. 42N393 1/4 Galvanized inside and outside.

Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price	Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price
16x24x6	11	11	\$2.80	20x30x6	18	18	\$4.05
18x30x6	16 1/2	16 1/2	3.55	20x36x6	22	22	4.80
18x36x6	22	22	4.30	20x40x6	24	24	5.55

This Sink Is Porcelain Enameled All Over.

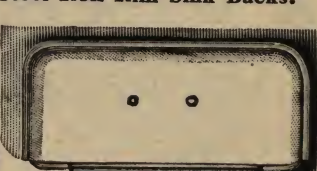
No. 42N394 1/4 Wrought Steel Sink, porcelain enameled white inside, blue outside. Handsome and serviceable.



Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price	Size, In.	Shpg. Wt., Over All	Shpg. Wt., Abt., Lbs.	Price
16x24x6	20	20	\$5.55	20x30x6	32	32	7.55
18x30x6	28	28	6.80	20x36x6	37	37	8.55
18x36x6	35	35	7.80	20x40x6	38	38	9.55

Wrought Steel Roll Rim Sink Backs.

No. 42N395 1/4 Used with our steel sinks. Have 2 1/2-inch roll rim. Can be used only on No. 42N392 1/4, 42N393 1/4, and 42N394 1/4, or on a turned edge sink.



Width, inches.....	24	30	36	40
Shpg. wt., about, lbs.....	12	16	20	21
Painted. Price.....	\$1.50	\$1.85	\$2.35	\$2.70
Galvanized. Price.....	2.00	2.30	2.85	3.20
White Enameled. Price...	3.30	3.85	4.65	5.10

Cast Cesspools or Floor Drains.

With bell trap. Placed in floor and connected to soil or sewer pipe. Half S trap shown not included.



No. 42N1710 Size, about 6x6 in. Shpg. wt., about 5 lbs. Price\$4.20

No. 42N1711 Size, about 9x9 inches. Shipping weight, about 15 pounds. Price.....\$8.00

No. 42N1712 Size about 13x13 inches. Shipping wt., about 20 lbs. Price.....\$1.20

Water Closets and Accessories



Frostproof Tank Flush Closet Outfit.

No. 42N106 1/4 For unheated rooms or outbuildings exposed to freezing temperatures. Automatic flushing device opens supply valve and closes flush valve when seat is pressed down, filling tank through 1/2-inch supply pipe. When seat is released it lifts, closing supply valve and opening flush and by-pass valves, causing a forceful fan shape flushing which reaches all parts of the bowl. The by-pass drains all water into 4-inch underground trap. All parts below floor can be buried in ground. Cast iron bowl, white porcelain enameled inside. Galvanized iron tank for working pressure of 85 lbs. Outfit consists of bowl, seat, tank, valve, piping and trap, as illustrated. Shipping wt., about 160 lbs. Price.....\$21.95 Complete installing directions furnished. Supply pipe threaded for iron pipe, 50 cents extra.

Philadelphia Porcelain Enameled Hopper.

No. 42N924 1/4 Cast iron, porcelain enameled inside. Connect to sewer with a soil trap and pipe. Attach closet seat to No. 42N1065 1/4 to wall back of hopper. Place stop cock, No. 42N5870, in inlet pipe to turn water on or off. Shipping weight, about 22 pounds. Price, for hopper only.....\$2.40 If wanted for 1/2-inch iron pipe connection, allow 50 cents extra.

High Quality Closet Seats With Covers.

Made of solid oak with brass nickel plated hinges. No. 42N928 1/4 Natural Oak Finish Closet Seat. To be used on No. 42N924 1/4 Philadelphia Hopper. Shpg. wt., abt. 13 lbs. Price.....\$2.25

No. 42N1065 1/4 Golden Oak Finish Closet Seat, to be used on any siphon jet or washdown bowl. Shipping wt., about 10 lbs. Price.....\$2.25

No. 42N1066 1/4 Same as above, except quarter sawed oak finish. Price.....\$2.75

Ball Cocks for Closet Tanks.

Made of brass. Furnished complete with jam nut and union connection for supply pipe. Shipping wt., about 3 pounds. No. 42N1479 For low closet tank, complete as illustrated. Price.....\$2.55

No. 42N1478 For high closet tank, bottom supply. Price.....\$2.10

No. 42N1477 For high closet tank, top supply. Price.....\$2.15

Enameled Iron Half Circle Urinals

No. 42N913 1/2 Fitted for 1-inch or 1 1/4-inch lead pipe. No. 1. Width of back, 11 1/2 inches. Shpg. wt., abt. 12 lbs. Price.....\$2.65

No. 2. Width of back, 15 inches. Shpg. wt., abt. 22 lbs. Price.....\$3.15 Above with outlet threaded for 1-inch iron pipe, 25c extra.

Vitreous Tank Outfit.

No. 42N112 1/4 Outfit with vitreous earthenware tank, siphon washdown bowl, solid oak seat. Read description below. Shipping wt., about 130 pounds. Price.....\$30.25

No. 42N114 1/4 Outfit same as above, except with siphon jet bowl. Price.....\$36.50

No. 42N1073 1/4 Vitreous tank only. Shipping weight, 70 pounds. Price.....\$18.00

No. 42N945 1/4 Siphon washdown bowl only. Shipping wt., 50 lbs. Price.....\$9.65

No. 42N950 1/4 Siphon jet bowl only. Same weight as above. Price.....\$15.95 Supply pipe of any of above outfits fitted for iron pipe, 50 cents extra.

Siphon Washdown Bowl.



The water enters at back near top and flows into bowl from duct which extends clear around top edge, flushing all parts thoroughly. Flows out through curved channel, which forms both trap and siphon.

Full Description of Closet Outfits.

The Closet Outfits on this page (excepting Frostproof Outfit No. 42N106 1/4) all operate on the same general principles. They consist of closet bowl, seat and tank. When the water in the tank is released by turning lever or pulling chain, it rushes down into bowl and flushes it out thoroughly. We list low tank and high tank outfits. Both are widely used. The low tank closet is preferred because it makes less noise when flushing and is more compact. The differences in our various outfits are in the material of which the tank and seat are made and the design of the bowl (siphon washdown or siphon jet). Therefore the following general description applies to all outfits, excepting No. 42N106 1/4.

TANKS. Wood tanks are made of oak or birch, lined inside with copper. Vitreous tanks are of vitreous earthenware (chinaware). Cast iron tanks are enameled inside and out with white porcelain enamel, same as used on our lavatories, bathtubs and sinks, shown on pages 11 to 15. All tanks are fitted with the latest type flush and intake valves, and nickel plated supply and flush pipes. Low tanks have china flush levers. High tanks have nickel plated pull chains with wood pull handles.

BOWLS. The two different designs of bowls are described above at the left and right of the center illustration. Both types are made of vitreous earthenware, sometimes called chinaware.

SEATS. Seats are made of oak or birch, as specified in the descriptions. All are highly polished and fitted with nickel plated brass hinges.

PIPE CONNECTIONS. All closet outfits on this page, except No. 42N106 1/4, require 3/4-inch supply pipe and 4-inch waste (soil) pipe. Lead pipe will be found on page 21; iron pipe on page 23; soil pipe on page 20. Full directions for installing closets and arranging for sewage will be sent without charge upon request.

EXTRA. If supply pipe of closet is to be connected to iron pipe, allow 50 cents extra. Bowl fitted with vent connection, 75 cents extra.

Siphon Jet Bowl.



Trap curve in back, differing from washdown bowl. Jet of water directed to entrance of trap assists flush. Requires less water and acts more directly than washdown bowl.

High Tank Outfit. Washdown Bowl.

Solid oak tank, oak seat with cover, siphon washdown bowl. Shpg. wt., about 105 lbs. Read full description in center of page. Price.....\$22.90

No. 42N1069 1/4 Tank only. Shpg. wt., abt. 35 lbs. Price.....\$10.00

No. 42N944 1/4 Bowl only. Shipping weight, about 50 lbs. Price.....\$9.65 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N136 1/4 High Tank Outfit. Price.....\$22.90

No. 42N1069 1/4 Tank only. Shpg. wt., abt. 35 lbs. Price.....\$10.00

No. 42N944 1/4 Bowl only. Shipping weight, about 50 lbs. Price.....\$9.65 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N141 1/4 High Tank Outfit with siphon jet bowl. Price.....\$30.75

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

No. 42N1070 1/4 Tank only. Shipping wt., about 35 lbs. Price.....\$10.00

No. 42N949 1/4 Bowl only. Shipping wt., about 50 lbs. Price.....\$15.95 Supply pipe threaded for iron pipe, 50 cents extra.

Self Acting Hopper Closet.

No. 42N100 1/4 Automatically flushes bowl when seat is down. Shuts off water when seat is released. For basements, factories and outhouses where there is no danger of freezing. Cast iron bowl, porcelain enameled inside and painted outside. Solid oak seat. For 1/2-inch or 3/4-inch lead pipe. A soil trap (see page 20) and soil pipe to reach to sewer and water piping are only extras needed. Shipping wt., about 45 pounds. Price, complete.....\$8.00 Tapped for 1/2-inch iron pipe, 50 cents extra.

Rubber Ball Valves for Low Closet Tanks.

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

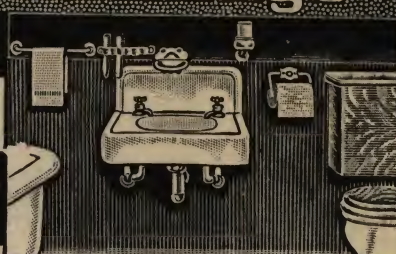
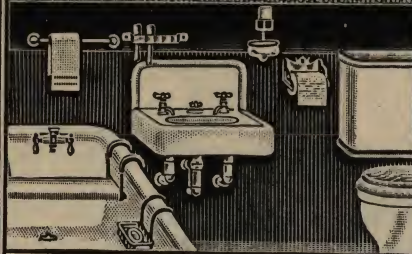
No. 42N1240 White Fiber Brush. Price.....18c

No. 42N1072 Standard connections for attaching to valve stem. Shpg. wt., abt. 6 oz. 2-in.....20c 2 1/2-in.....30c 2 3/4-in.....30c

Water Closet Brushes that reach all parts of bowl. Bristles on heavy wire frame, wood handle. Shipping weight, about 1 pound. No. 42N1241 Palmetto Fiber Brush. Price.....16c

No. 42N1240 White Fiber Brush. Price.....18c

Bathroom and Kitchen Trimmings



Bathroom Trimming Set.

No. 42N1206 Includes following articles on this page: No. 42N1183, 18-Inch Glass Towel Bar; No. 42N1188, Wall Soap and Tumbler Holder; No. 42N1193, Six-Compartment Tooth Brush Holder; No. 42N1233, Toilet Paper Holder; No. 42N1140, Bathtub Soap Dish; No. 42N1221, White Bathtub Seat. Shipping wt., 15 lbs. Price, per set, \$3.75

No. 42N1226 1/2-Inch Glass Shelf, rounded edges, 1-inch glass bar. About 5x24 inches. Shipping wt., 11 lbs. Price...\$3.60

No. 42N1225 1/2-Inch Glass Shelf, rounded edges, and bar. About 5x24 in. Shpg. wt., about 5 1/2 lbs. Price\$1.98

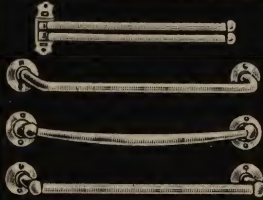
No. 42N1230 1/4-Inch Glass Corner Shelf. Rounded edges. About 9x9 in. Shpg. wt., abt. 3 lbs. Price...\$95c

No. 42N1223 1/2-Inch Glass Shelf, rounded edges. About 5x24 inches. Shipping weight, about 7 lbs. Price\$3.30

All trimmings shown on this page, unless otherwise described, are made of brass, nickel plated and polished. Nickel plated screws are included with all fixtures that fasten to the wall. For other bathroom hardware see page 1389 of our big General Catalog No. 137.

Bathroom Trimming Set.

No. 42N1205 Includes the following articles on this page: No. 42N1180, 18-In. Towel Bar; No. 42N1155, Tumbler Holder With Tumbler; No. 42N1228, Toilet Paper Holder; No. 42N1130, Wall Soap Cup; No. 42N1193, Tooth Brush Holder. Shipping weight of set, 4 pounds. Price, per set.....\$1.40



No. 42N1192 Double Arm Towel Bar. Length, over all, about 12 inches. Shipping weight, about 1 1/2 pounds. Price.....\$67c

No. 42N1189 1/2-Inch Towel Bar. Shipping weights, about 2 1/4, 2 1/2 and 3 1/2 pounds. Length, 18 in., 60c; length, 24 in., 65c; length, 30 in....\$75c

No. 42N1188 Curved Towel Bar, 1/2 inch thick. Length, 18 inches. Price.....\$49c
Length, 24 inches. Price.....\$55c

No. 42N1183 Crystal Glass Towel Bar, 1/2 inch thick. Nickel plated brackets. Shipping weight, about 3 pounds. Length, 18 in., 63c; length, 24 in....\$69c

No. 42N1224 1/2-Inch Glass Shelf. Rounded edges. About 5x24 inches. Shipping weight, about 5 1/2 pounds. Price.....\$1.10

No. 42N1190 1-Inch Crystal Glass Towel Bar. Length, 18 in., \$1.40; length, 24 in., \$1.60; length, 30 in.....\$1.70

No. 42N1180 1/2-Inch Towel Bar. Shipping weights, 2, 2 1/4 and 2 1/2 lbs. Length, 15 in., 36c; length, 18 in., 39c; length, 24 in.....\$44c

No. 42N1187 1/2-Inch Towel Bar. Shpg. wts., about 2 1/4, 2 1/2 and 3 1/2 lbs. Length, 18 in., 75c; length, 24 in., 82c; length, 30 in.....\$90c



No. 42N1144 Kitchen Soap Dish with spring hangers. Hangs between faucets. Size, about 3 1/2 x 5 1/2 inches. Shipping weight, abt. 1 pound. Price...\$40c
Faucets not included.

No. 42N1140 Soap Dish for rim of bathtub. Size, about 4 x 5 in. Shpg. wt., about 12 oz.....\$50c

No. 42N1130 Wall Soap Cup. Nickel plated. Size, about 2 1/2 x 4 1/4 inches. Shipping wt., about 4 ounces. Price\$17c

No. 42N1110 Single Robe Hooks, with screws. Nickel plated. Shipping wt., about 2 ounces. Each7c
Per doz.....\$80c

No. 42N1115 Double Robe Hooks. Nickel plated. Medium size, with screws. Shpg. wt., abt. 2 oz. Each\$0.10
Per doz.....\$1.10

No. 42N868 Rubber Plug. Wt., about 3 ounces. 1-inch for wash basin, 1 1/4 inch for bathtub, 1 5/8

No. 42N1196 White Rubber Drain Board Mat. Both sides corrugated. Shipping wt., about 4 pounds. 15 1/2 x 15 1/2 in. \$1.35
16 x 18 in. \$1.30
16 x 22 in. \$1.75
18 x 18 in. \$1.70
18 x 22 in. \$1.85

No. 42N1104 Radiator Brush with long handle. For dusting between sections of radiators. Shipping weight, about 1 lb. Price\$18c



Bathtub Seat, made of oak in golden oak finish, or birch, white enameled. Steel rods nickel plated and rubber covered. Shipping wt., about 7 1/2 pounds.

No. 42N1222 Golden oak finish\$60c

No. 42N1221 White enameled. Price.....\$72c



No. 42N1217 Spray with Nickel Spray Head. 5 feet white rubber hose and faucet connection. Shpg. wt., about 1 lb. Price.....\$72c
No. 42N1218 Extra quality red rubber Spray with patent bulb to fit bath cock, otherwise as above. Shpg. wt., about 1 lb. Price.....\$90c

No. 42N1135 Comb and Brush Tray. Nickel plated. Size, about 4 x 10 inches. Shpg. wt., abt. 12 oz. Price.....\$92c

No. 42N1142 Wall Soap Cup, with removable opal glass dish. Size, abt. 3 1/4 x 5 1/2 in. Shpg. wt., abt. 2 lbs.\$65c

No. 42N1141 Wall Soap Cup, with wash cloth hook. Nickel plated. Shpg. wt., abt. 8 oz. Price.....\$42c

No. 42N1193 Nickel Plated Tooth Brush Holder, for 6 brushes. Shipping wt., about 3 oz. Price.....\$18c

No. 42N1165 1/4 Bathroom Mirror. Bevel plate glass, mounted in nickel plated brass frame. Size, over all, about 12x20 inches. Shipping wt., about 10 lbs. Price.....\$4.60
For full line of mirrors see page 1034 of our big General Catalog No. 137.

No. 42N1201 White Enameled Wood Bath Stool. Height, about 18 in. Shipping wt., about 8 lbs. Price\$1.40



No. 42N1249 Marvel Shower Bath. Easily attached to wall by two brackets. Hose slips over any bath cock. Complete with nickel plated rain head, 24-inch curtain ring, white duck curtain, rubber connecting tube, curtain chain and hook, waterproof cap for protecting hair, and four screws to fasten to wall. Shipping weight, about 12 pounds. Price.....\$7.70

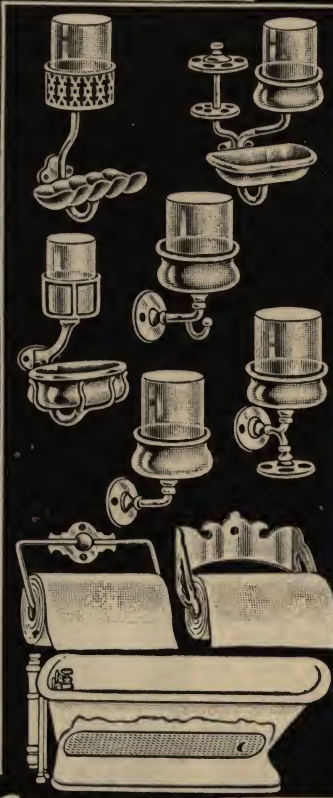
No. 42N1166 Combination Tumbler and Soap Holder. Made of brass heavily nickel plated. Shipping wt., about 12 oz. Price, without tumbler\$70c
See Tumbler No. 42N1169 listed below.

No. 42N1168 Wall Soap and Tumbler Holder with removable opal glass soap dish and tumbler. Shipping weight, about 2 1/2 lbs. Price, complete\$1.35

No. 42N1155 Tumbler Holder. Shpg. weight, 8 oz. Price, without tumbler, 35c

No. 42N1169 Opal Tumbler. Shipping weight, about 8 oz. Price.....\$15c

No. 42N1228 Toilet Paper Holder. With black enameled wood roller. Shipping wt., about 6 ounces. Price.....\$25c
Paper not included.



No. 42N1170 Wall Soap, Tumbler and Tooth Brush Holder with removable opal glass dish and tumbler. Shpg. wt., abt. 2 1/2 lbs. Price, complete\$1.65

No. 42N1153 Wall Tumbler Holder with a jewel or wash cloth hook. Nickel plated. Shipping wt., about 8 oz. Price, without tumbler\$45c
See Tumbler No. 42N1169 priced in center of this page.

No. 42N1160 Tooth Brush and Tumbler Holder. Shpg. wt., abt. 9 oz. Price, without tumbler\$52c
Tumbler No. 42N1169 on this page.

No. 42N1233 Toilet Paper Holder. Made of brass heavily nickel plated. Shpg. wt., about 9 ounces. Price...\$45c
Paper not included.

No. 42N1195 Mat; placed in bathtub to prevent slipping. Also very comfortable to feet and body. Good rubber with surface roughened, not perforated. Size, about 12x30 inches. Shipping wt., about 2 1/2 lbs. Price.....\$1.00

Water Closet Brush. Bristles on heavy wire. Shipping weight, about 1 pound.
No. 42N1241 First grade palm-leaf fibers. 16c
No. 42N1240 Selected white fibers...18c



No. 42N1220 Monarch Combination Massage Brush and Spray. 3-inch brush, rubber teeth, perforated, producing shower effect. Five feet red rubber tubing, aluminum faucet attachment. Shipping wt., 2 pounds. Price.....\$2.20

No. 42N1250 1/2 Perfection Portable Shower. For country home. 5-gallon galvanized iron tank with brass shut-off, nickel plated shower yoke and rubber hose. Shpg. wt., about 6 1/2 lbs. Price.....\$3.50

A Stationary Laundry Tub Saves Time and Work



Two-Compartment Granite Laundry Tub.

48-In. Laundry Tub
\$9.35

A stationary laundry tub does away with all the hard work of lifting and carrying water to and from the washtub. The hot and cold water are connected to the tub itself, and the waste water is drained out by pipes leading directly to sewer or other drain. These tubs are fastened securely to the floor, making it much easier to use the washboard. Our tubs are molded all in one piece and then coated with a special composition which makes the surfaces hard and smooth. All edges and corners are rounded off, leaving no place for the dirt to collect. Tub with this construction are far easier to keep clean and more sanitary than those made of slabs cemented together.

The two-compartment tub shown at the left is furnished with metal rim and wringer guards and painted waste connections. Each compartment has a brass waste plug, but prices shown below do not include faucets. Either No. 42N758 or No. 42N755 Laundry Bibbs, listed on this page, can be used. The compression bibb is the most popular, as it fits closer to the back of the tub. Read below "About Waste Pipe."

All tubs measure 24 inches from front to back and are 16 inches deep. Dimensions are over all and may vary slightly. Shipped from factory in NORTHEASTERN ILLINOIS.

No. 42N733 1/2 Length over all, 48 inches. Shipping weight, about 380 pounds. Price.....\$9.35
No. 42N734 1/2 Length over all, 54 inches. Shipping weight, about 400 pounds. Price.....\$10.55
No. 42N735 1/2 Length over all, 60 inches. Shipping weight, about 450 pounds. Price.....\$11.00
If wanted with waste opening threaded for iron pipe allow 25 cents extra.

About Waste Pipe.

Connect the laundry tubs on this page to waste pipe with No. 42N1537 Sink Trap for two-compartment, or No. 42N1532 Drum Trap for three-compartment tub. Traps prevent foul odors coming up through waste pipe. Traps on page 27. Wrought pipe, page 25.

Steel Clothes Posts.

Why put up with heavy, clumsy wood posts, which rot and break, when Steel Posts cost no more?

Our posts are of 1 1/2-inch steel pipe with cast head, 9 feet long. Should be placed 2 1/2 or 3 feet in ground. Setting in concrete is still better.

No. 42N513 1/2 Hercules Steel Clothes Posts, painted. Shipping weight, about 28 lbs. Each.....\$2.15

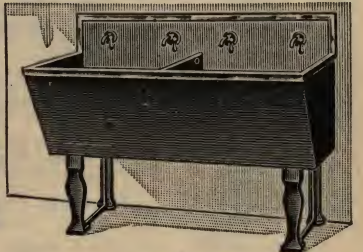
No. 42N514 1/2 Hercules Steel Posts, galvanized. Shpg. wt., same as above. Each.....\$2.50



Granitine Tubs With Backs.

These tubs are of exactly the same construction as described above, except they have a back 6 inches high. All measure 24 inches from front to back and are 16 inches deep. Dimensions are over all and may vary slightly. Prices shown below do not include faucets. Suitable faucets are listed below under Nos. 42N758, 42N759 and 42N755. For the proper waste connections read above, "About Waste Pipe." All tubs shipped from factory in NORTHEASTERN ILLINOIS.

NOTICE—We also furnish Porcelain Enameled Pedestal Two-Compartment Laundry Tubs With High Backs. Prices quoted on application.



Three-Compartment Tubs With Backs.

No. 42N790 1/2 Length, over all, 72 in. Shpg. wt., abt. 670 lbs. \$19.70
No. 42N791 1/2 Length, over all, 80 in. Shpg. wt., abt. 730 lbs. 22.00
No. 42N792 1/2 Length, over all, 90 in. Shpg. wt., abt. 775 lbs. 23.60
If wanted with waste opening threaded for iron pipe, add 50 cents extra.

Two-Compartment Tubs With Backs.

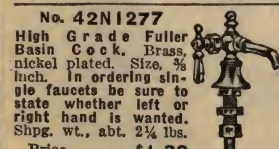
No. 42N745 1/2 Length, over all, 48 in. Shpg. wt., abt. 450 lbs. \$12.55
No. 42N746 1/2 Length, over all, 54 in. Shpg. wt., abt. 500 lbs. 14.55
No. 42N747 1/2 Length, over all, 60 in. Shpg. wt., abt. 550 lbs. 15.75



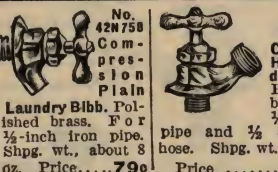
No. 42N1307 Nickel Plated Brass Compression Bath Cock. Combination hot and cold. Size, 1/2 inch. High quality. Latest design. Shipping wt., about 3 1/2 pounds. Price.....\$3.25
Above threaded for iron pipe, 50 cents extra.



No. 42N1302 No. 4 1/2 Fuller Combination Hot and Cold Bath Cock. Brass, nickel plated, complete, ready for use. Size, 1/2 inch. Heavily made. Carefully machined. Shipping weight, about 4 pounds. Price.....\$3.25
Above threaded for iron pipe, 50 cents extra.



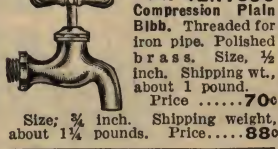
No. 42N1277 High Grade Fuller Basin Cock. Brass, nickel plated. Size, 1/2 inch. In ordering single faucets be sure to state whether left or right hand is wanted. Shpg. wt., abt. 2 1/4 lbs. Price.....\$1.32



No. 42N758 Laundry Bibb. Polished brass. For 1/2-inch iron pipe. Shpg. wt., about 8 oz. Price.....79c



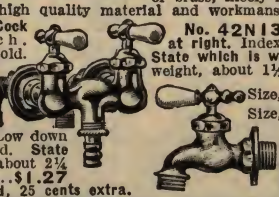
No. 42N1308 Bath Cock at right. Size, 1/2 inch. Combination hot and cold. Shpg. wt., about 1 lb. Price.....\$3.55
Above threaded for iron pipe, as illustrated, 50c extra.



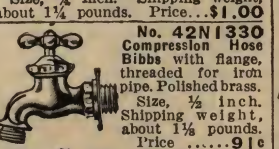
No. 42N1268 Basin Cock at left. Size, 1/2 inch. Low down pattern. Indexed hot and cold. State which is wanted. Shpg. wt., about 2 1/2 pounds. Price.....\$1.27
Threaded for iron pipe, as illustrated, 25 cents extra.



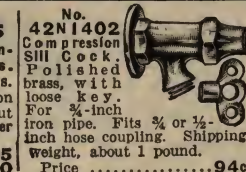
No. 42N759 Compression Laundry Bibb. Polished brass. For 1/2-inch iron pipe. Shpg. wt., about 8 oz. Price.....88c



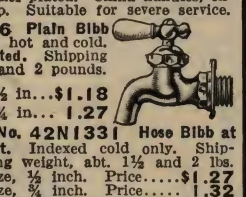
No. 42N755 Fuller Laundry Bibbs. Polished brass. Threaded for iron pipe. Shipping weight, about 1 1/2 pounds. State whether right or left is wanted. Price, 1/2 inch.....\$1.05
Price, 3/4 inch.....1.10



No. 42N1402 Compression Sink Cock. Polished brass, with loose key. For 3/4-inch iron pipe. Fits 3/4 or 1/2 inch hose coupling. Shipping weight, about 1 pound. Price.....94c



No. 42N1326 Plain Bibb at right. Indexed hot and cold. State which is wanted. Shipping weight, about 1 1/2 and 2 pounds. Size, 1/2 in...\$1.18
Size, 3/4 in...1.27



No. 42N1331 Hose Bibb at left. Indexed cold only. Shipping weight, abt. 1 1/2 and 2 lbs. Size, 1/2 inch. Price.....\$1.27
Size, 3/4 inch. Price.....1.32



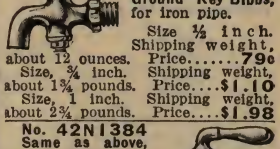
No. 42N1351 China Handle Nickel Plated Brass Fuller Plain Bibbs, for iron pipe. Indexed hot or cold. State which is wanted. Size, 1/2 inch. Shipping weight, about 1 pound. Price.....\$1.27
Size, 3/4 inch. Shipping weight, about 1 1/4 pounds. Price.....\$1.32



No. 42N1345 Fuller Plain Bibbs, with flange. Threaded for iron pipe. Size, 1/2 inch. Shipping weight, about 1 pound. Price, polished brass.....\$0.97
Price, nickel plated.....1.03
Size, 3/4 in. Shpg. wt., abt. 1 1/4 lbs. Price, polished brass.....\$1.10
Price, nickel plated.....1.18



No. 42N1350 Fuller Hose Bibbs, with flange. Threaded for iron pipe. Size, 1/2 inch. Shipping weight, about 1 pound. Polished brass.....\$1.03
Nickel plated.....1.10
Size, 3/4 in. Shpg. wt., abt. 1 1/4 lbs. Polished brass.....\$1.10
Nickel plated.....1.18



No. 42N1385 Plain Polished Brass Ground Key Bibbs, for iron pipe. Size, 1/2 inch. Shipping weight, about 12 ounces. Price.....79c
Size, 3/4 in. Shipping weight, about 1 1/2 pounds. Price.....\$1.10
Size, 1 inch. Shipping weight, about 2 1/4 pounds. Price.....\$1.98

Cast Iron Soil Pipe and Fittings

Double Hub Soil Pipe.



Sold in 5-foot lengths only. No waste in cutting, as each part will have a hub.

No. 42N1558 1/4
Standard. 2-inch. Shpg. wt., about 19 lbs. Price, per 5-foot length, \$1.18
4-inch. Shipping wt., about 36 lbs. Price, per 5-foot length, \$2.04

No. 42N91558 1/4
Extra Heavy. 2-inch. Shpg. wt., about 29 lbs. Price, per 5-foot length, \$1.68
4-inch. Shipping wt., about 62 lbs. Price, per 5-foot length, \$3.28

Cast Iron Traps.

Used with closets having no trap, to prevent sewer gas and stench coming up through closet bowl.

Half S Traps.



Size, 4 inches.
No. 42N1635 1/4
Standard. Shipping wt., about 21 lbs. Price, \$1.34
No. 42N91635 1/4
Extra Heavy. Shpg. wt., about 25 lbs. Price, \$1.66

Running Trap With Clean Out Hole and Cover.



Size, 4 inches.
No. 42N1702 1/4
Standard. Shpg. wt., about 23 lbs. Price, \$2.22
No. 42N91702 1/4
Extra Heavy. Shpg. wt., about 31 lbs. Price, \$2.76

S Traps.



Size, 4 inches.
No. 42N1630 1/4
Standard. Shpg. wt., about 23 lbs. Price, \$1.34
No. 42N91631 1/4
Extra Heavy. Shpg. wt., about 28 lbs. Price, \$1.68

Long Increases.



Required at top of soil stack where going through roof to increase opening and prevent clogging with frost.

No. 42N1605 1/4
Standard. Size, 2 to 4x 24 inches. Shpg. weight, about 16 pounds. Price, \$1.20
No. 42N1607 1/4
Standard. Size, 4 to 5x 30 inches. Shpg. weight, about 22 pounds. Price, \$1.62
No. 42N91606 1/4
Extra Heavy. Size, 2 to 4x 24 inches. Shpg. wt., about 17 pounds. Price, \$1.26
No. 42N91608 1/4
Extra Heavy. Size, 4 to 5x 30 inches. Shpg. wt., about 30 pounds. Price, \$1.80

Ventilating Caps.



Used in connection with soil pipe and No. 42N1701 1/4 trap for ventilating sewer outside of building.

No. 42N1660 1/4
Standard. Size, 4x6 in. long. Shpg. wt., about 8 lbs. Price, \$2.80
No. 42N91660 1/4
Extra Heavy. Size, 4x6 inches long. Shipping weight, about 13 lbs. Price, \$3.90

S Trap With Vent.



Size, 4 inches with 2-inch vent.
No. 42N1645 1/4
Standard. Shpg. wt., about 23 lbs. Price, \$2.04
No. 42N91645 1/4
Extra Heavy. Shpg. wt., about 35 lbs. Price, \$2.45

Half S Trap With Clean Out Hole and Cover.



Size, 4 inches.
No. 42N1686 1/4
Standard. Shpg. wt., about 16 lbs. Price, \$2.22
No. 42N91686 1/4
Extra Heavy. Shpg. wt., about 24 lbs. Price, \$2.76

Running Trap With Vent.



Cast Iron, for Soil Pipe.
No. 42N1700 1/4
Standard. Size, 2 inches, with 2-inch vent. Shipping weight, about 7 lbs. Price, \$1.13
No. 42N91700 1/4
Extra Heavy. Shpg. wt., about 10 lbs. Price, \$1.38
Size, 4 inches, with 4-inch vent.
No. 42N1701 1/4
Standard. Shpg. wt., about 24 lbs. Price, \$2.04
No. 42N91701 1/4
Extra Heavy. Shpg. wt., about 38 lbs. Price, \$2.44

T Branches Tapped for Iron Pipe.

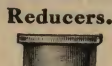


No. 42N1670 1/4
Standard. Shpg. wt., about 21 lbs. Price, \$1.34
No. 42N91670 1/4
Extra Heavy. Shpg. wt., about 28 lbs. Price, \$1.68

Reducers.



For reducing 4-inch soil pipe to 2 inches.
No. 42N1616 1/4
Standard. Shpg. weight, about 4 lbs. Price, \$3.60
No. 42N91616 1/4
Extra Heavy. Shipping weight, about 5 pounds. Price, \$4.10



For reducing 4-inch soil pipe to 2 inches.
No. 42N1616 1/4
Standard. Shpg. weight, about 4 lbs. Price, \$3.60
No. 42N91616 1/4
Extra Heavy. Shipping weight, about 5 pounds. Price, \$4.10

Quarter Bends.



For Soil Pipe.
No. 42N1565 1/4
Standard. 2-inch. Shpg. wt., about 4 1/2 lbs. Price, \$3.60
No. 42N1566 1/4
Standard. 4-inch. Shpg. wt., about 8 lbs. Price, \$6.20
No. 42N91567 1/4
Extra Heavy. 2-inch. Shpg. wt., about 5 lbs. Price, \$5.00
No. 42N91568 1/4
Extra Heavy. 4-inch. Shpg. wt., about 16 lbs. Price, \$7.80

Quarter Bends.



With Side Inlet.
Either right or left hand. State which is wanted. Size, 4 inches, with 2-inch side inlet. Shpg. wt., about 12 lbs.
No. 42N1576 1/4
Standard. Price, \$1.13
No. 42N91576 1/4
Extra Heavy. Shipping weight, about 19 pounds. Price, \$1.38

Quarter Bends.



With Heel Inlet.
No. 42N1695 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x2 5 \$1.13
4x2 12 \$1.14
No. 42N91695 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x2 6 \$1.38
4x2 14 \$1.44

Eighth Bends.



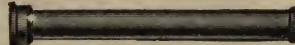
No. 42N1562 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x2 4 \$1.13
4x2 12 \$1.14
No. 42N91562 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x2 6 \$1.38
4x2 14 \$1.44

Pipe Rests.



For Holding Soil Stack.
No. 42N1625
Standard. Shpg. Wt., In. Abt. Lbs. Price
2 in. 2 1/2 lbs. \$2.60
4 in. 3 lbs. \$3.60
No. 42N91625
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2 in. 4 1/2 lbs. \$3.60
4 in. 4 1/2 lbs. \$4.00

Iron Soil Pipe.



Single hub; comes in 5-foot lengths only. 2-inch soil pipe is used for waste stack to run from sewer to roof of house, taking waste from plumbing fixtures. 4-inch soil pipe is used for waste stack to run from sewer to roof, taking waste from closet.

No. 42N1550 1/4
Standard. 2-inch size. Shpg. wt., about 19 lbs. Price, per 5-foot length, \$1.08
No. 42N1551 1/4
Standard. 4-inch size. Shpg. wt., about 33 lbs. Price, per 5-foot length, \$1.92

No. 42N91552 1/4
Extra heavy. 2-inch size. Shpg. wt., about 29 lbs. Price, per 5-foot length, \$1.56
No. 42N91553 1/4
Extra heavy. 4-inch size. Shpg. wt., about 61 lbs. Price, per 5-foot length, \$3.36

Sanitary T Branches.



Used in soil stack to connect to waste of lavatories, sinks and closets.

No. 42N1580 1/4
Standard. 2x2 inches. Shpg. wt., about 5 lbs. Price, \$5.00
No. 42N91582 1/4
Extra Heavy. 2x2 inches. Shpg. wt., about 10 lbs. Price, \$6.70
No. 42N1581 1/4
Standard. 4x4 inches. Shpg. wt., about 14 lbs. Price, \$8.90
No. 42N91583 1/4
Extra Heavy. 4x4 inches. Shpg. wt., about 18 lbs. Price, \$1.25
No. 42N1584 1/4
Standard. 4x2 inches. Shpg. wt., about 11 lbs. Price, \$7.70
No. 42N91585 1/4
Extra Heavy. 4x2 inches. Shpg. wt., about 14 lbs. Price, \$9.80

Sanitary T Branches, Tapped for Iron Pipe.



No. 42N1650 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x1 1/2 5 \$0.67
4x1 1/2 9 \$1.15
No. 42N91650 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x1 1/2 8 \$0.80
4x1 1/2 12 \$1.39

Tapped Crosses.



Side openings, tapped for iron pipe. Used to connect 2-inch pipes of sinks or lavatories on opposite sides to the same soil stack.

No. 42N1572 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x1 1/2 5 \$1.02
4x1 1/2 9 \$1.25
No. 42N91572 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x1 1/2 8 \$1.27
4x1 1/2 12 \$1.53

Sanitary Crosses.



Used to connect two closets, lavatories, sinks or tubs on opposite sides of same soil stack.

No. 42N1685 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x2 7 1/2 \$1.13
4x2 11 1/2 \$1.62
No. 42N91685 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x2 10 \$1.38
4x2 19 \$1.92
4x4 24 \$1.94

Tapped Sanitary Crosses.



Side openings, tapped for iron pipe.

No. 42N1573 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x1 1/2 5 \$1.13
4x1 1/2 9 \$1.56
4x2 10 \$1.58
No. 42N91573 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x1 1/2 11 \$1.38
4x1 1/2 14 \$1.92
4x2 13 \$2.04

Offsets.



No. 42N1690 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x4 4 \$0.53
2x6 5 \$0.67
2x12 8 \$1.02
4x4 9 1/2 \$0.89
4x6 11 \$0.97
4x12 15 \$1.42
No. 42N91690 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x4 7 \$0.67
2x6 8 \$0.80
2x12 14 \$1.25
4x4 15 \$1.13
4x6 17 \$1.26
4x12 20 \$1.78



Y Branches.



No. 42N1680 1/4
Standard. Shpg. Wt., In. Abt. Lbs. Price
2x2 5 \$0.67
4x2 10 \$0.76
4x4 17 \$0.89
No. 42N91680 1/4
Extra Heavy. Shpg. Wt., In. Abt. Lbs. Price
2x2 9 \$0.67
4x2 19 \$1.25
4x4 23 \$1.25

Clean Out Y With Brass Screw Cover.



Placed in pipe so that it may be cleaned out through cap at side.

No. 42N1703 1/4
Standard. Size, 2 inches. Shpg. wt., about 5 lbs. Price, \$1.84
Standard. Size, 4 in. Shpg. wt., about 15 lbs. Price, \$1.68
No. 42N91704 1/4
Extra Heavy. Size, 2 in. Shpg. wt., about 7 lbs. Price, \$1.94
Extra Heavy. Size, 4 in. Shpg. wt., about 18 lbs. Price, \$1.80

Cast Iron Closet Bend.



No. 42N1902 1/4
Size, 4x18 in. Has adjustable floor flange and bolts, tapped on both sides for 1 1/2-inch iron pipe. Shipping weight, about 19 pounds. Price, \$2.76

Closet Bend With Graphite Washer.

No. 42N1903 1/4
Same as No. 42N1902 1/4 above, except fitted with brass inner collar and graphite gasket, making the use of putty unnecessary. Shpg. wt., about 19 lbs. Price, \$3.66
For Lead Bends and Ferrules see page 22.

Adjustable Roof Flanges.



No. 42N1901 1/4
Will fit any pitch. Shpg. wt., 4 in., about 3 1/2 lbs.; 5-inch, about 5 pounds. 4-inch galvanized. Price, \$0.99
5-inch galvanized. Price, \$1.43
4-inch copper. Price, \$2.48
5-inch copper. Price, \$3.30

Sanitary T Branches With One Side Inlet.



Used in stack for waste of closet, with side opening for waste of lavatory and bathtub. Size, 4 inches. Either right or left side inlet. State which is wanted. Shpg. wts., standard, about 18 lbs.; extra heavy, about 22 lbs.

No. 42N1590 1/4
Standard. Price, \$1.78
With 1 1/2-inch side inlet for iron pipe. Price, \$2.22
No. 42N91590 1/4
Extra Heavy. Price, \$2.17
With 1 1/2-inch tapped side inlet for iron pipe. Price, \$2.58

With Inlets on Both Sides.

No. 42N1591 1/4
Standard. Price, \$2.70
With 2-inch side inlets for soil pipe. Price, \$3.06
With 1 1/2-inch side inlets for iron pipe. Price, \$3.60
No. 42N91591 1/4
Extra Heavy. Price, \$3.06
With 2-inch side inlets for soil pipe. Price, \$3.06
With 1 1/2-inch side inlets for iron pipe. Price, \$3.96

Service or Stop Cock Boxes.



Made of Cast Iron, Japanned.

No. 42N1706 1/4
Diam., 2 1/2 in., extends from 36 to 52 in. Shpg. wt., about 26 lbs. Price, \$2.40
No. 42N1707 1/4
Diam., 2 1/2 in., extends from 54 to 78 in. Shpg. wt., about 34 lbs. Price, \$3.20

Hot Water at the Turn of a Faucet





How to Get Running HOT Water

You can easily have running hot water if you have running cold water supplied by an attic or barn tank, a water supply outfit like those on pages 2 to 7, or city water pressure. It is only necessary to have a range boiler to store the hot water ready for use. Heat the water in a water front in your kitchen range, or by coils in your furnace, or by a gas, oil or coal heater like those shown on page 28.

Picture at left shows proper pipe connections between boiler and stove. Same arrangement is used for connection with coils in furnace. Picture at right shows connection with a heater.

Description of Our Range Boilers

All our range boilers as listed below are first shaped and then galvanized inside and out. This covers all parts of the boiler with a coating of zinc and protects it from rusting. All our boilers are tapped for 1-inch pipe, but when furnished with couplings they are fitted for 3/4 or 1/2-inch lead pipe, or, when threaded, for 3/4-inch wrought iron pipe. Lead pipe and fittings are listed below; iron pipe and fittings on page 23.

Full instructions for installing furnished upon request.

If you wish any further information or an estimate, we will gladly give it.

Standard Vertical or Horizontal Range Boilers.

Guaranteed for one year to withstand a pressure of 85 pounds. Read full description above. Where the regular or fire pressure is in excess of 85 pounds an extra heavy boiler should be used. A stand, inner tube and set of brass couplings for 3/4-inch lead pipe connection are included with each vertical boiler. Couplings only are furnished with horizontal boiler. State size boiler wanted and whether vertical or horizontal.

No. 42N1081 1/4 Standard VERTICAL Range Boilers.				No. 42N1093 3/4 Standard HORIZONTAL Range Boilers.			
Approximate capacity, gallons...	30	40	52	30	40	52	
Size, inches	12x60	14x60	16x60	12x60	14x60	16x60	
Shpg. wt., lbs.	90	101	155	90	101	155	
Price	\$15.65	\$19.95	\$28.35	\$15.60	\$19.90	\$28.30	

Above prices are for boilers fitted with 3/4-inch lead pipe connection. If galvanized couplings are wanted for 3/4-inch iron pipe, add 20 cents.

Extra Heavy Vertical or Horizontal Range Boilers.

Guaranteed for Three Years to Stand 150 Pounds Working Pressure. Read full description above. Vertical boilers have stand tube and couplings. Horizontal boilers furnished with couplings only. Much heavier than boilers listed at left. Should be used in cities having a water pressure of over 85 pounds. Will outwear the standard boiler and withstand a pressure of 150 pounds. State size boiler wanted and whether vertical or horizontal.

No. 42N1087 1/4 Extra Heavy VERTICAL Range Boilers.				No. 42N1096 3/4 Extra Heavy HORIZONTAL Range Boilers.			
Approximate capacity, gallons...	30	40	52	30	40	52	
Size, inches	12x60	14x60	16x60	12x60	14x60	16x60	
Shpg. wt., lbs.	119	136	172	119	136	172	
Price	\$19.85	\$24.75	\$32.95	\$19.80	\$24.70	\$32.90	

Above prices are for boilers fitted with 3/4-inch lead pipe connection. If wanted with galvanized couplings for 3/4-inch iron pipe, add 20 cents.

Range Boilers Only.

Boilers only, without tube, stand or couplings, VERTICAL or HORIZONTAL. State which style wanted and size.

No. 42N1075 1/4 Standard.				No. 42N1076 3/4 Extra Heavy.			
Size, in.	Cap'ty. Gal.	Shpg. Wt. Lbs.	Price	Size, in.	Cap'ty. Gal.	Shpg. Wt. Lbs.	Price
12x60	30	80	\$14.40	12x60	30	80	\$14.40
14x60	40	90	\$18.70	14x60	40	90	\$18.70
16x60	52	145	\$26.05	16x60	52	145	\$26.05

Rope Oakum.

No. 42N1866 1/4 For calking iron soil pipe and fittings. A 4-inch soil pipe joint requires 1/4 pound of oakum; a 2-inch joint, 1/8 pound. Price, per pound.....\$0.10 Per 50-pound coil.....4.75

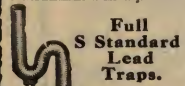
The plumbing tools were shown in use for calking lead joints in soil pipe and fittings, and for installing lead and brass pipe and fittings. When calking joints oakum (No. 42N1866 1/4) is forced into the joint with a yarning iron (No. 42N1825), and molten lead is then poured in on top of the oakum with a pouring ladle. After lead cools it is forced down solid into joint with a calking chisel (No. 42N1831). Plumbers' blast furnaces, melting pots and ladles on page 27.

Plumbers' Wiping Cloth.

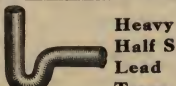
No. 42N1845 Made of good quality ticking. Shpg. wt., about 2 ounces. Price.....15c

Asbestos Joint Runner.

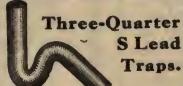
No. 42N1815 For running horizontal soil, water or gas pipe. Illustration shows runner as applied to pipe. For 2, 4, 5 and 6-inch pipe. Shpg. wt., about 2 lbs. Price, each.....\$1.65



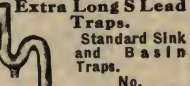
Full S Standard Lead Traps.
No. 42N1490 Size, 1 1/4 inches. Shpg. wt., about 4 lbs. Price.....62c
No. 42N1491 Size, 1 1/2 inches. Shpg. wt., about 5 1/2 lbs. Price.....97c



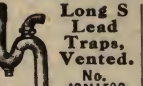
Heavy Half S Lead Traps.
No. 42N1504 Size, 1 1/4 inches. Shipping weight, about 4 lbs. Price.....55c
No. 42N1505 Size, 1 1/2 inches. Shipping weight, about 4 1/2 pounds. Price.....81c



Three-Quarter S Lead Traps.
No. 42N1508 Size, 1 1/4 inches. Shipping wt., about 4 lbs. Price.....59c
No. 42N1509 Size, 1 1/2 inches. Shipping wt., about 4 1/2 lbs. Price.....88c
Either of above traps threaded for connecting to iron pipe, 50 cents extra.



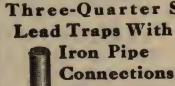
Extra Long S Lead Traps.
Standard Sink and Basin Traps.
No. 42N1497 Size, 1 1/4 in. Shipping wt., about 5 1/2 lbs. Price.....99c
No. 42N1498 Size, 1 1/2 inches. Shpg. wt., about 7 1/2 lbs. Price.....\$1.46
No. 42N1499 Same as above, except fitted for iron pipe connections. Size, 1 1/4 inches. Price.....\$1.64
Size, 1 1/2 inches. Price.....\$2.13



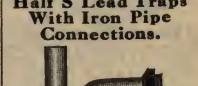
Long S Lead Traps, Vented.
No. 42N1502 Size, 1 1/4 in. Shpg. wt., about 5 pounds. Price.....\$1.85
No. 42N1503 Size, 1 1/2 inches. Shpg. wt., about 7 1/2 lbs. Price.....\$2.46
Above fitted for iron pipe connections for 80 cents each, extra.



Lead S Traps With Iron Pipe Connections.
No. 42N1493 Size, 1 1/4 in. Shpg. wt., about 4 lbs. Price.....\$1.46
No. 42N1494 Size, 1 1/2 in. Shpg. wt., about 5 1/2 lbs. Price.....\$1.82



Three-Quarter S Lead Traps With Iron Pipe Connections.
For sinks, basins, etc., fitted for lead pipe.
No. 42N1515 Size, 1 1/4 in. Shpg. wt., about 4 lbs. Price.....\$1.40
No. 42N1516 Size, 1 1/2 in. Shpg. wt., about 5 lbs. Price.....\$1.68
Prices of all lead pipe, bends, traps and ferrules are subject to market changes.



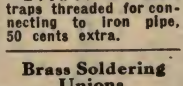
Half S Lead Traps With Iron Pipe Connections.
No. 42N1510 1 1/4 in. Shpg. wt., about 3 1/2 lbs. Price.....\$1.40
No. 42N1512 1 1/2 in. Shpg. wt., about 4 lbs. Price.....\$1.68
Prices of all lead pipe, bends, traps and ferrules are subject to market changes.



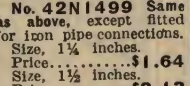
Brass Soldering Bushings.
No. 42N1434 Soldered to lead or brass pipes to make iron pipe connections. Size, 1 1/4 inches. Shipping weight, about 8 ounces. Price.....22c
Size, 1 1/2 inches. Shipping weight, about 8 ounces. Price.....28c



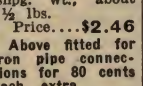
Male Straight Soldering Nipples.
No. 42N1435 Threaded for iron pipe outside. Solid brass. Size, Shpg. Wt., In. Abt. Lb. Price
1/2 3 17c
3/4 4 21c
1 6 28c
1 1/4 8 33c
1 1/2 9 44c
2 12 77c



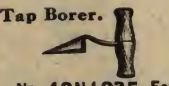
Brass Soldering Unions.
No. 42N1445 Size, Shpg. Wt., Price, In. Abt. Lb. Each
1/2 3 17c
3/4 4 21c
1 6 28c
1 1/4 8 33c
1 1/2 9 44c
2 12 77c



Gem Bibb Seat Dresser.
No. 42N1790 For grinding seats of 1/2, 3/4 and 1-inch compression bibbs. Cutters are rose pattern and inside and outside of bell is threaded for screwing in or over bibb. Shipping weight, about 1 pound. Price.....\$1.49



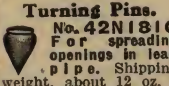
Boxwood Dresser.
No. 42N1800 For heating or dressing lead pipe. Shipping weight, about 1 1/2 lbs. Price.....60c



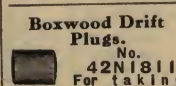
Tap Borer.
No. 42N1835 For boring a 3/8 inch reaming lead pipe. Steel blade. Shipping wt., about 12 ounces. Price.....19c



Oval Shave Hook.
No. 42N1805 For shaving lead pipe to make solder stick. Steel blade. Shipping weight, about 12 oz. Price.....19c



Turning Pins.
No. 42N1810 For spreading openings in lead pipe. Shipping weight, about 12 oz. No. 1, for 1-inch or smaller pipe. Price.....12c
No. 2, for 2-inch or smaller pipe. Price.....14c



Boxwood Drift Plugs.
No. 42N1811 For taking kinks and bends out of lead pipe. Shipping weight, about 8 oz. For lead pipe, in... 1 1/4 1 1/2 Price.....9c 10c 11c

Lead Pipe.

No. 42N1870 1/4

Prices subject to market changes. Sizes given are inside diameter of pipe.

Size	Weight	Per Foot
3/4 in. diam.	10 oz. to ft.	8c
1 in. diam.	1 1/4 lbs. to ft.	12c
1 1/4 in. diam.	2 lbs. to ft.	18c
1 1/2 in. diam.	3 lbs. to ft.	24c
2 in. diam.	4 lbs. to ft.	36c
2 1/2 in. diam.	5 lbs. to ft.	49c
3 in. diam.		61c

Medium Weight Lead Pipe.

Prices subject to market changes.

No. 42N1875 1/4

Size	Weight	Price, per Foot
3/4 in. diam.	1 1/4 lbs. to ft.	12c
1 in. diam.	2 lbs. to ft.	24c
1 1/4 in. diam.	3 1/4 lbs. to ft.	36c
1 1/2 in. diam.	4 1/4 lbs. to ft.	48c
2 in. diam.	6 1/4 lbs. to ft.	72c

Sheet Lead.

No. 42N1885 Thickness, 1/2 and 3/8 inch; 3/2 inch weighs 2 1/2 pounds per square foot; 3/4 inch weighs 4 pounds per square foot. State thickness square foot.....32c
Price, 3/2-inch, per square foot.....51c
Price, 3/4-inch, per square foot.....51c

Bending Pins.

No. 42N1820 For bending smaller size lead pipe and flanging out edges of holes. Shpg. wt., about 1 1/2 lbs. Price.....16c
No. 42N1821 Same as above, except one end turned, other end straight. Price.....16c

Pig Lead.

No. 42N1905 1/4 For making calked lead joints, etc. Price, per pound, in 8-pound ingots.....12 1/2c
Prices subject to market changes.

Calking Chisel.

No. 42N1831 Straight Calking Chisel. For calking soil pipe and fittings. Shpg. wt., about 1 lb. Price.....30c
No. 42N1830 Right or left hand offset calking chisel. State which is wanted. Shpg. wt., about 1 lb. Price.....31c

Plumbers' Wood Gouge.

No. 42N1839 Tool steel. Will stand hard usage and give good service. Length, about 9 1/2 inches. Width, inside of blade, 3/4 inch. Shipping wt., about 1 lb. Price.....38c
Cold Chisels are listed on page 1446.

Steel Spring Pipe Bender.

Placed inside lead pipe when bending to prevent kinks. No. 42N1795 Size, 1 1/4 inches. Shipping weight, about 3 1/2 pounds. Price.....40c
No. 42N1796 Size, 1 1/2 in. Shpg. wt., about 3 1/2 lbs. Price.....48c

Plumbers' Solder.

No. 42N1900 For making wiped solder joints. Bars are about 1 1/2 pounds each. Less than a bar not sold. Very high quality. Price, per bar.....82c
Prices subject to market changes. For tinner's solder and block tin, see page 1415.

Yarning Iron.

No. 42N1825 For forcing oakum into joint before calking. Shpg. wt., about 1 1/2 lbs. Price.....30c

Plumbers' Wood Chisel.

No. 42N1838 Tool steel, properly tempered to hold edge. Polished blade. Length, about 10 inches. Width of blade, 3/4 inch. Shipping weight, about 1 pound. Price.....32c

Pipe Coverings, Straps, Bends, Traps

For Connecting Closet Bowls to Soil Stacks.

Cast Iron Closet Bend.

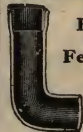


No. 42N1902½ Size, 4x18 inches. Has adjustable floor flange and bolts, tapped on both sides for 1½-inch iron pipe. Shipping weight, about 19 lbs.
Price\$2.76

Closet Bend With Graphite Washer.

No. 42N1903½ Same as No. 42N1902½, except fitted with brass inner collar and graphite gasket, making the use of putty unnecessary. Shipping weight, about 19 pounds.
Price\$3.36

Combination Lead Bends and Ferrules.



No. 42N1514 For connecting soil pipe with closet bowl.
Shpg. Wt., Size, About, In. Lbs. Price
4x12 13 \$2.35
4x14 14 2.55
4x18 17 3.00

Short Lead Bend.

No. 42N1524 Size, 4x12 inches. Shipping weight, about 7½ pounds.
Price\$1.85

For Connecting Lead Pipe to Cast Iron Soil Pipe.

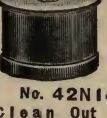


No. 42N1455 Brass Ferrules, Size, 2x3½ in. Shipping weight, about 1 pound.
Price.....40c
Size, 4x3½ in. Shipping wt., about 2 lbs. Price.....66c



No. 42N1461 Combination Lead and Iron Ferrules. Shpg. Wt., Size, About, In. Lbs. Price
2x 4 2 \$0.31
4x 6 6 .91
4x 8 7 1.18
4x12 10 1.54

Place in Soil Stack for Clean Out Opening.



No. 42N1450 Clean Out Ferrule. Body is cast iron, regular soil pipe sizes. Cover is brass, keeping threads clear of rust.
Shpg. Wt., Size, About, In. Lbs. Price
2 1½ 28c
3 2½ 38c
4 3½ 47c

To Trap the Waste Openings of Bathtubs, Sinks and Laundry Tubs.



Sink or Laundry Tub Trap.
No. 42N1537 Made of cast iron, with brass clean out plug in bottom. Tapped for 1½-inch pipe connection. Connected direct to sink with sink bolts. Shpg. wt., about 4½ lbs. Price.....42c



Lead Drum Trap.
No. 42N1530 Diameter, 4 inches; length, 9 inches, with brass top and screw. Shipping weight, about 5½ lbs. Price.....\$2.17
No. 42N1536 Same as above, except with nickel plated top. Price.....\$2.38



Iron Drum Trap.
No. 42N1533 Size, about 4¼ x 5½ in. With nickel plated brass cover. Tapped for 1½-inch pipe. Nickel plated brass cover. Shipping weight, about 8 lbs. Price.....\$2.87



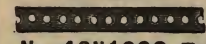
Iron Drum Trap.
No. 42N1532 Size, about 4¼ x 8½ in. Tapped both sides for 1½-inch pipe. Nickel plated brass cover. Shipping weight, about 15½ pounds. Price, painted \$1.10

Adjustable Pipe Hangers.



No. 42N2150 Made of strap iron. Pipe, Inches Price, Each
¾ 11½c
1 12c
1½ 13c
2 14c
2½ 16c
3 20c
3½ 22c
4 28c

For Hanging Horizontal Range Boilers, Pipes, Etc.



No. 42N1099 Perforated Strap Iron. Made of ¾-inch by ¾-inch band iron with 5/16-inch perforations. Furnished in 5 and 10-foot lengths only. Shipping weight, about 4 ounces per foot.
Price, per foot....6c

Tinned Pipe Straps.



No. 42N5712 To hold pipe in place against wall. Pipe, Inches Price, Dozen
¾ 12c
1 13c
1½ 14c
2 16c
2½ 21c
3 23c
3½ 25c
4 29c

Cast Iron Floor Flanges.



No. 42N784 Used in pipe railings and fences as a base for fastening pipe to the floor, wall or other surface. Pipe, Diameter, Inches Over All, In. Price
¾ 3 9c
1 3½ 12c
1½ 3½ 13c
2 4 14c
2½ 4 18c
3 4½ 24c
4 5 32c

Cover Hot Water and Steam Pipes to Prevent Loss of Heat. Cover Cold Water Pipes to Keep Them From Freezing.



No. 42N2173½ Air Cell Asbestos Covering for Steam or Hot Water Pipes. Asbestos is one of the best non-conductors of heat known. By leaving small air spaces between the layers of asbestos the efficiency of the covering is increased twofold. It is very light, thereby reducing freight charges and is not as liable to become broken while in transit as the molded covering. Sizes of covering shown below represent pipe sizes for which it is to be used. Comes in 3-foot lengths only. All sizes are 1 inch thick, 4-ply. Shipped from factory in NORTHEASTERN ILLINOIS. Owing to manner in which covering is packed, shipping weights vary with amount of covering ordered.

For Pipe, Size	Price, per Foot	For Pipe, Size	Price, per Foot
¾ inch	1c	2 inches	18c
1 inch	12c	2½ inches	20c
1½ inches	13½c	3 inches	22½c
2 inches	15c	3½ inches	25c
2½ inches	16½c	4 inches	30c

Molded Asbestos Elbow and Tee Covering.

No. 42N2170½ Used in connection with our Air Cell Asbestos and Wool Felt Covering for elbows and tees. For asbestos paste see page 1268.

Pipe, Inches	Elbow Covering	Tee Covering	Pipe, Inches	Elbow Covering	Tee Covering
¾	15c	18c	2	18c	21c
1	15c	18c	2½	21c	24c
1½	15c	18c	3	24c	27c
2	15c	18c	3½	30c	30c
2½	15c	18c	4	30c	35c

Wool Felt Covering for Hot or Cold Water Pipes.



No. 42N2171½ Generally used for covering cold water pipes to prevent them from freezing, as it holds the heat in the water better than asbestos. Can also be used for covering hot water pipes, but should not be put around steam pipes or near a fire, as it is inflammable. Made of layers of felt with an asbestos lining on the inside where it fits around the pipe, and a canvas covering to hold the two sections firmly in place. Very easily put on. Cut lengthwise through the center. Comes in 3-foot lengths only, 1 inch thick. Sizes of covering shown below represent pipe sizes for which covering is to be used. Shipped from factory in NORTHEASTERN ILLINOIS. Owing to manner in which covering is packed, shipping weights vary with amount of covering ordered.

For Pipe, Size	Price, per Foot	For Pipe, Size	Price, per Foot
¾ inch	1c	2 inches	18c
1 inch	12c	2½ inches	20c
1½ inches	13½c	3 inches	22½c
2 inches	15c	3½ inches	25c
2½ inches	16½c	4 inches	30c

Above covering can be placed around pipe already installed. For asbestos paste see page 1268.

Mix It With Water and Apply Just Like Mortar.

No. 42N2172½ Asbestos Cement. For covering iron or any other surface to prevent loss of heat. Composed of asbestos fiber and a cementing compound. Covering your boiler with asbestos cement will prevent loss of heat and effect a great saving in your coal bills. Boilers are generally covered to a thickness of 1½ inches. One hundred pounds of cement will cover boiler surface about 1,000 square inches to a thickness of 1 inch. Comes in bags of 100 pounds.
Price, per bag.....\$1.75
Price, per pound, in less than full bags03½c
For furnace cement see page 1268.

SHIPPING WEIGHTS—Where shipping weights are not given in some of the descriptions on this page, the weights vary with the number ordered and the method of shipment. An estimate of the shipping weights and freight, express or parcel post charges will be given upon receipt of a list of the fittings in which you are interested.

Sharpens Knives, Scissors, Tools and Skates.

Smooths wood or metal surfaces. Polishes jewelry, silverware and brass goods. Brush attachment washes bottles, fruit jars and other glassware. Operates light machinery, such as jewelers' and dentists' lathes.

Hercules Water, Steam or Air Motor.

Attaches to faucet, with threaded connection, same as garden hose. Can be operated by water, steam or air pressure. Develops ¼ horse-power at 100 pounds pressure. Shipping weight, about 8 pounds.
No. 42N1392 Hercules Water, Steam or Air Motor, complete with attachments, as described above.
Price\$3.15
No. 42N1393 Brush Attachment for use with above motor for washing bottles, jars and glasses.
Price30c
For Hose Nipple for connecting to iron pipe see No. 9N7100, page 1398.



Sink or Closet Drain Stopped Up? One of These Will Clean It Out.



Hand Clean Out Cup.

No. 42N1882 For removing obstructions in discharge pipe of lavatory, sink or bathtub. Run several inches of water into fixture, place rubber cup over outlet and force down quickly three or four times. Water beneath cup is forced into discharge pipe with a succession of sudden impulses, dislodging the stoppage and forcing it through pipe. Dimension of cup, about 3¼ inches. Shipping wt., about 2 lbs. Price.....26c



Handy Clean Out Pump.

No. 42N1880½ For forcing stoppages and cleaning waste pipes, closets, sinks, wash bowls and bathtubs in the same manner as the hand clean out cup described at left. Made with a heavy rubber cup on the end of a long wooden handle. Shipping weight, about 1½ pounds.
Price35c
No. 42N1881½ Same size as above, except that cup is made of extra good quality red rubber. Shipping weight, about 1½ lbs. Price65c

Supply Connections for Lavatories and Bathtubs.

Basin Supply Pipes.
No. 42N992 Plain Wall Supplies. Brass, nickel plated, with flanges, ¾ inch. Shipping weight, about 1½ pounds.
Price, per pair.....\$1.55
No. 42N993 Plain Straight Supplies. ¾ inch, complete with flanges. Brass, nickel plated. Shipping weight, about 3 pounds.
Price, per pair.....\$1.65

Bath Supply Pipes.
No. 42N997 Plain Offset, with flanges. Brass, nickel plated. Size, ½ inch. Shipping weight, about 3 pounds.
Price, per pair.....\$2.45

Simplex Lavatory Connections.
Allow the use of ¾-inch iron pipe for supplies to wall or floor. To attach, remove tailpiece and nut from basin cock, slip nut over connection, insert rubber gasket and screw nut up tight. Made of brass, timed. Prices include brass washer and rubber gasket, but not nut, as this is part of basin cock. Shipping weight, about 4 ounces.
No. 42N998 Simplex Connection to floor. Price, per pair.....45c
No. 42N999 Simplex Connection to wall. Price, per pair.....45c

Traps for Sinks and Lavatories.
Nickel Plated Traps.
No. 42N974 Nickel Plated Brass P Trap. Shipping wt., about 3 lbs. Size, 1½ inches, for lavatories. Price.....\$2.45
Size, 1½ inches, for sinks. Price.....\$2.70
Above threaded for iron pipe, 50 cents extra.

No. 42N984 Nickel Plated Brass S Trap, plain, not vented. Shipping wt., about 5 lbs. Size, 1½ inches, for lavatories. Price.....\$3.25
Size, 1½ inches, for sinks. Price.....\$3.65
Above threaded for iron pipe, 50 cents extra.

No. 42N979 S Trap, with vent to wall and flanges. Brass, nickel plated. Shipping wt., about 5½ pounds. Size, 1½ in., for lavatories. Price.....\$3.90
Size, 1½ inches, for sinks. Price.....\$4.40
Above threaded for iron pipe, 50c extra.

Waste Connections for Bathtubs.
Connected Bathtub Waste and Overflow.
No. 42N1002 With slip joints and floor flange. Size, 1½ inches. Brass, nickel plated. Shipping wt., about 3½ pounds. Price.....\$2.80
Above threaded for 1½-inch iron pipe, 50 cents extra.

Connected Bath Waste and Overflow.
No. 42N1004 With trap to floor. Nickel plated brass. Cast S trap to floor with clean out and slip joint and flange. Size, 1½ inches. Shpg. weight, about 6 pounds. Price.....\$5.40
Above threaded for 1½-inch iron pipe, 50 cents extra.

Wrought Pipe and Pipe Fittings

For carrying steam, gas or water. Made of good quality evenly rolled stock, carefully welded and free from imperfections. Black pipe and fittings are used for piping gas, for steam and hot water heating plants and for any other purpose where it is not subject to corrosion, or where rusty or discolored water is no drawback. Galvanized pipe and fittings are used for supplying water for drinking and domestic use, also for the waste piping of plumbing systems and for any other similar purpose.

No. 42N5710 1/4 Black Pipe.
No. 42N5711 1/4 Galvanized Pipe.
Always include cost of threads when pipe is ordered cut to exact lengths.

Standard Wrought Steam, Gas and Water Pipe.



We carry in stock at our Chicago store 1/2-inch to 6-inch pipe in stock lengths as it comes from the mill, both in black and galvanized. Prices on larger sizes will be quoted on application. Prices given for each of the different sizes of pipe are for regular stock lengths of about 20 feet, as they come from the mill. One coupling is furnished with each stock length. When you specify exact lengths, threaded, we charge for the threads on both ends, as per price list shown below, and no coupling is included.

We handle only new first quality pipe as it comes from the mills.

PRICES SUBJECT TO MARKET CHANGES.

Inside Diameter	Shipping Weight, per Foot, About, Pounds	Black, per Foot	Galvanized, per Foot	Extra Threads, Each End	Inside Diameter	Shipping Weight, per Foot, About, Pounds	Black, per Foot	Galvanized, per Foot	Extra Threads, Each End
1/8 inch	1/8	4 3/4	7 1/2	3 3/8	2 inches	3 3/8	\$0.27 1/2	\$0.34 1/2	6c
1/4 inch	1/4	5 1/2	7 3/4	3 3/8	2 1/2 inches	4 1/2	56 1/2	72	8 1/2c
3/8 inch	3/8	6 1/4	8 1/2	3 3/8	3 inches	5 1/2	73 1/2	90	12c
1/2 inch	1/2	8 1/4	11	3 3/8	4 inches	8 1/2	107	125	14 1/2c
3/4 inch	3/4	12 1/2	15 1/4	3 3/8	4 1/2 inches	12 1/2	142	175	21 1/2c
1 inch	1	18 1/2	21 3/4	4 1/2	5 inches	14 1/2	188	235	32 1/2c
1 1/4 inches	2 1/2	20 1/2	26	6	6 inches	18 1/2	253	318	42c

For Pipe Hangers, Straps and Coverings, see page 1605.

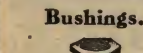


Nipples.

State length wanted. All nipples 6 inches long or over will be charged at price per foot of iron pipe with cost of cutting threads added. For weights see weights of pipe.

Pipe, In.	Black	Galv.
1/8	2 1/2	3 1/2
1/4	3 1/2	4 1/2
3/8	4 1/2	5 1/2
1/2	6 1/2	8 1/2
3/4	9 1/2	12 1/2
1	12 1/2	16 1/2
1 1/4	18 1/2	22 1/2
1 1/2	24 1/2	28 1/2
1 3/4	30 1/2	34 1/2
2	36 1/2	40 1/2

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



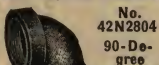
Bushings.

Reduce one size—large end given here.

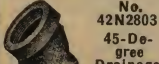
Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2

Drainage Fittings.

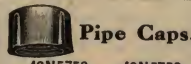
When pipe is screwed into a drainage fitting it butts against a shoulder, leaving a straight passage through pipe and fitting without pockets or ridges to catch waste matter. These fittings especially suitable in waste pipe lines and vacuum cleaning systems.



Pipe Size	Price
1 1/4 in.	22c
1 1/2 in.	27c
2 in.	40c

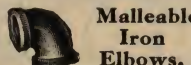


Pipe Size	Price
1 1/2 in.	27c
2 in.	40c



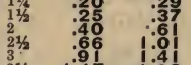
Pipe Caps.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



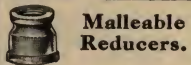
Iron Elbows.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



Reducing Elbows.

Furnished under the same numbers at same prices as above. Price is figured by size of big end. State size of tapplings wanted at both openings.



Malleable Reducers.

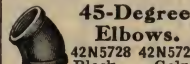
Reduce one size—large end given here.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



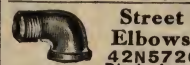
Cast Iron Plugs.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



45-Degree Elbows.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



Street Elbows.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



Laundry Tub Tee.

No. 42N5734 Galvanized. Size, 1/2 inch. Side outlet offset to allow raising up and dropping down to bibb connection. Shipping weight, about 8 ounces. Price.....31c



Malleable Iron Unions.

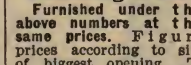
Used to join together two pieces of pipe.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



Malleable Tees.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2
1 1/4	22 1/2	23 1/2
1 1/2	28 1/2	29 1/2
1 3/4	34 1/2	35 1/2
2	40 1/2	41 1/2



Reducing Tees.

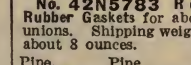
Furnished under the above numbers at the same prices. Figure prices according to size of biggest opening. To give size wished, first give size of the bigger end of run, then other end of run, finally size of side branch.



Cast Iron Flange Unions.

No. 42N5782 Easily and quickly connected or disconnected. Leave opening through union same size as inside of pipe.

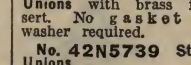
Pipe, In.	Price
1/8	40c
1/4	46c
3/8	51c
1/2	61c
3/4	71c



Rubber Gaskets for Unions.

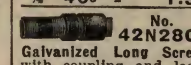
No. 42N5783 Red Rubber Gaskets for above unions. Shipping weight, about 8 ounces.

Pipe, In.	Price
1/8	1 1/4
1/4	1 3/4
3/8	2 1/4
1/2	2 3/4
3/4	3 1/4
1	3 3/4



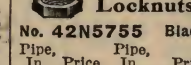
Cold Drawn Steel Unions.

No. 42N5739 Steel Unions. Price, In. 1/8 1 1/4, 1/4 1 3/4, 3/8 2 1/4, 1/2 2 3/4, 3/4 3 1/4, 1 3 3/4.



Galvanized Long Screw.

With cooling and lock-nut faced. For drainage piping. Price, In. 1/8 \$1.09, 1/4 \$1.42.



Locknuts.

No. 42N5755 Black. Price, In. 1/8 1 1/4, 1/4 1 3/4, 3/8 2 1/4, 1/2 2 3/4, 3/4 3 1/4, 1 3 3/4.



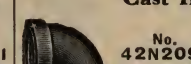
Wrought Iron Couplings.

Pipe, In.	Black	Galv.
1/8	40c	46c
1/4	46c	51c
3/8	51c	61c
1/2	61c	71c
3/4	71c	81c
1	81c	91c



Malleable Iron Return Bends.

No. 42N5769 Black. Price, In. 1/8 1 1/4, 1/4 1 3/4, 3/8 2 1/4, 1/2 2 3/4, 3/4 3 1/4, 1 3 3/4.



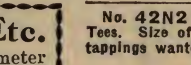
Cast Iron Fittings.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2



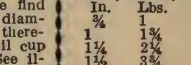
Cast Iron Elbows.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2



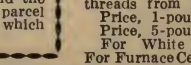
Cast Iron Tees.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2



Cast Iron Reducing Tees.

Pipe, In.	Black	Galv.
1/8	3 1/2	4 1/2
1/4	4 1/2	5 1/2
3/8	5 1/2	6 1/2
1/2	8 1/2	9 1/2
3/4	12 1/2	13 1/2
1	16 1/2	17 1/2



Graphite Pipe Cement.

No. 42N6203 Used in radiator joints, gas and water pipes. To make tight joints and keep threads from rusting. Price, 1-pound can...\$0.26 1/2, 5-pound can...1.27. For White Lead, see Index. For Furnace Cement, see page 1268.

Read Before Ordering Fittings, Valves, Etc.

The sizes of wrought pipe, as given in this catalog, refer to the INSIDE diameter of the pipe. The pipe sizes given for fittings, valves, oil cups, etc., refer to the inside diameter of the pipe to which they connect, and not the diameter of the tapping on the inside or outside of the fitting itself. When in doubt as to the pipe size of a fitting, measure the diameter across the tapping, or threads you wish to fit, and then refer to the table given below for the corresponding pipe size. Example: An oil or grease cup is desired to fit a tapping in a bearing or fitting that measures 1/2 inch in diameter. By referring to the table below we find that a pipe thread 1/2 inch in diameter is for 1/2-inch pipe; it will therefore be necessary to order an oil cup for 1/2-inch pipe connection. See illustration.

Shipping Weights

The shipping weight of pipe fittings varies, according to the number ordered and the method of shipment. An estimate of the shipping weights and freight, express or parcel post charges will be furnished, if desired, upon receipt of a list of the fittings in which you are interested.

Stops, Cocks, Valves, Gauges, Whistles

Pressure Gauges.

For showing pressure of steam, water, oil or gas. Has iron case, brass spring and white dial with black figures, easy to read. Shpg. wt., about 4 lbs.

No. 42N6364 Double Spring Pressure Gauge. For power sprayers, traction engines and steam boats where there is considerable jarring. Has 4 1/2-inch dial. Registers to 300 pounds. Price.....\$2.75

No. 42N6362 Single Spring Pressure Gauge. For pressure water systems, pumps and steam boilers. Registers to 200 pounds. Dial, inches..... 3 1/4 4 1/2 5 Price.....\$1.80 \$1.85 \$1.90

No. 42N2076 Low Pressure Single Spring Gauge. For heating boilers, steam cookers, etc. Has 4 1/2-inch dial. Registers to 25 pounds. Price.....\$1.80

Before
Ordering
Fittings
Read
About
Sizes at
Bottom of
Page
1606.

For Cleaning and Polishing Machinery of All Kinds.

Cotton Waste. Made by fluffing or pulling apart the threads of cotton cloth and the waste material from cotton mills.

No. 1 waste, either white or colored, is made from new cuttings and waste threads that accumulate when weaving cloth in the cotton mills. It is very fluffy, more absorbent and stronger than the lower grades.

No. 3 waste is made from reclaimed cotton goods and mill sweepings with a sufficient quantity of long threads to hold it together properly. It is used for packing and cleaning, but is not as absorbent or fluffy as the No. 1 grade.

No. 42N6254 1/4

	1 lb.	5 lbs.	10 lbs.	25 lbs.	50 lbs.	100 lbs.
No. 1 White	\$.026	\$1.26	\$2.40	\$5.20	\$10.20	\$19.80
No. 3 White	1.08	2.10	4.80	9.30	18.00	
No. 1 Colored	.84	1.56	3.60	6.60	12.60	
No. 3 Colored	.78	1.44	3.30	6.00	11.70	



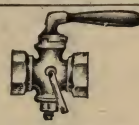
No. 42N5869 Lever Handle Stop With Union. For water or gas piping. Especially recommended for connecting gas stores to service pipe. Made of brass, rough finish. Threaded for iron pipe. Pipe, in. 1/2 3/4 1 Shpg. wt., abt., lbs. 2 2 1/2 3 3/4 Price...\$2.20 \$1.14 \$2.22



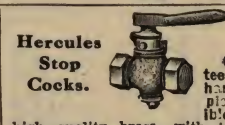
No. 42N5870 Lever Handle Stop. Rough brass, threaded for iron pipe. Pipe, in. 1/2 3/4 1 Shpg. wt., abt., lbs. 1 1/2 2 1/2 3 Price...\$5.90 \$5.80 \$1.52



No. 42N5872 Lever Handle Stop and Waste. Rough brass, threaded for iron pipe. Pipe, in. 1/2 3/4 1 Shpg. wt., abt., lbs. 1 1/2 2 1/2 3 Price...\$6.40 \$9.20 \$1.58



No. 42N1410 Lever Handle Stop and Waste for Iron Pipe. Pipe, in. 1/2 3/4 1 Shpg. wt., abt., lb. 3/4 1 1 1/2 Price...\$1.32 \$1.76



Hereules Stop Cocks. Combination tee and lever handle, one piece, reversible. Made of high quality brass, with iron handle. Excellent for high pressure work.

No. 42N5873 Hereules Stop Cocks. For Shpg. Pipe, Wt., Lbs. Price 1/4 1 \$0.99 1/2 1 1/2 1.23 3/4 1 1/2 2.13 1 1 3/4 3.70

No. 42N5875 Hereules Stop and Waste Cocks. Wt., Lbs. Price 1/4 1 \$0.94 1/2 1 1/2 1.27 3/4 1 1/2 2.27 1 1 3/4 3.74



No. 42N5874 T Handle Stop. Rough brass, threaded for iron pipe. Pipe, in. 1/2 3/4 1 1 1/2 Shpg. wt., abt., lbs. 1 1/2 2 1/2 3 Price...\$6.00 \$8.60 \$1.51 \$2.59



No. 42N5871 T Handle Stop and Waste. Rough brass, threaded for iron pipe. Pipe, Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$0.63 3/4 1 .92 1 1 1.58 1 1/2 3 2.59 1 3/4 4 5.39



No. 42N5890 Hydrant Cock. For iron pipe connections. T handle. For Shpg. Wt., In. Abt., Lbs. Price 1 1 \$1.75 1 1/2 2 2.84



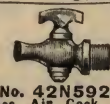
No. 42N5834 Brass Three-Way Cock. For Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$1.75 1 1/2 2 2.09 1 1/2 2 2.64 1 3/4 2 4.02 1 1/2 3 5.34 1 3/4 3 7.68



No. 42N5837 All Iron Cock. For Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$0.67 1 1/2 2 .97 1 1/2 2 1.20 1 3/4 2 1.55 1 1/2 3 2.01 1 3/4 3 3.28 1 3/4 3 5.03



No. 42N5836 Standard Weight Steam Cock. Brass, flat head. For Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$0.47 1 1/2 2 .55 1 1/2 2 .72 1 3/4 2 .94 1 1/2 3 1.32 1 3/4 3 2.70 1 3/4 3 3.85



No. 42N5922 Shipping Cock. For Shpg. Wt., In. Abt., Oz. Price 1/4 4 19c 1/2 4 21c 3/4 6 23c 1 6 26c



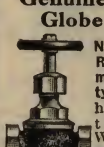
No. 42N5918 Compression Gauge Cock. Solid brass, wood wheel. Complete with improved stuffing box. Polished. For Shpg. Wt., In. Abt., Oz. Price 1/2 12 63c 3/4 13 69c 1 16 77c



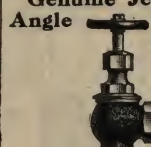
No. 42N5826 Brass Globe Valve. For pipe, inch. 1/2 3/4 1 Shpg. wt., abt., lb. 5 5 5 Price...\$5.10 \$5.40 \$5.40



No. 42N5828 Brass Angle Valve. For pipe, inch. 1/2 3/4 1 Shpg. wt., abt., lb. 5 5 5 Price...\$5.10 \$5.40 \$5.40



No. 42N5850 Genuine Jenkins' Globe Valve. Recognized as the most satisfactory type valve. For higher pressure than ordinary. Workmanship and material guaranteed. Size, inch. 1/2 3/4 1 Shpg. wt., abt., lbs. 5 5 5 Price...\$1.21 \$1.38 \$1.38



No. 42N5852 Genuine Jenkins' Angle Valve. Size, inch. 1/2 3/4 1 Shpg. wt., abt., lbs. 5 5 5 Price...\$1.21 \$1.38 \$1.38



No. 42N5788 Brass Gate Valve. Tested to 100 pounds pressure. Used either for steam or water where a full opening (same size of pipe) is required. Bearing of wedge is central, acting uniformly on all parts of disc. Size, inch. 1/2 3/4 1 Shpg. wt., abt., lbs. 5 5 5 Price...\$1.21 \$1.38 \$1.38



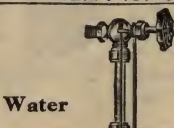
No. 42N6390 Iron body with brass mounting. Threaded for iron pipe. With cast iron weight. Size, Shpg. Wt., In. Abt., Lbs. Price 1 13 \$2.81 1 1/2 19 3.47 1 3/4 24 4.07 2 38 5.45 2 1/2 62 9.24 3 100 12.05



No. 42N5832 Brass Horizontal Check Valve. For Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$0.46 1 1/2 2 .50 1 3/4 2 .64 1 1 1.12 1 1/2 1.56 1 3/4 2.16 2 3.30



No. 42N5858 Genuine Jenkins' Horizontal Check Valve. For Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$1.32 1 1/2 2 1.43 1 3/4 2 2.09 1 1 2 2.86 1 1/2 3 3.96 1 3/4 5 5.50 2 8.25



No. 42N6402 Water Gauge. With brass body, iron wheels and two guards to protect glass tube. Shipping weight, about 3 pounds. Size, inch. 1/2 3/4 1 Price, Rough Finished \$1.60 \$1.90 \$1.90



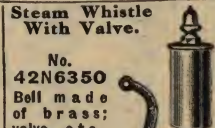
No. 42N6331 Brass Water Relief Valve. Used on pneumatic tanks, spray pumps, pipe lines, etc., to relieve an excess water pressure, also on steam engine cylinders. Furnished set at 50 or 100 pounds. State which is wanted. Size, Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$4.40 1 1/2 2 5.28 1 3/4 2 6.60 2 10 11.88



No. 42N6330 High Pressure Pop Safety Valve. Brass. Full relieving capacity. Connect valve to top of boiler when possible. When pipe connections are used have them full diameter of valve or larger. In ordering state horse-power of boiler and highest working pressure. Shpg. Wt., In. Abt., Lbs. Price 1 1/2 8 \$4.40 1 1/2 12 5.28 1 3/4 18 6.60 1 3/4 20 7.92 2 30 11.88



No. 42N6354 Single Chime Steam Whistle. Made of brass. Has three distinct tones properly blended. Very simple in construction. Diam. Shpg. Wt., In. Abt., Lbs. Price 1 1/2 1 \$6.16 1 3/4 2 9.68 2 3 15.84 3 23 24.64 4 31 36.96



No. 42N6350 Steam Whistle With Valve. Bell made of brass; valve, etc., of steam metal. A good whistle for the price. Diam. Shpg. Wt., In. Abt., Lbs. Price 1 1/2 1 \$2.31 1 3/4 2 2.91 2 3 4.01 2 1/2 4 4.78 3 6 6.21 3 1/2 7 8.41 4 9 11.00



No. 42N5840 Swing Check Valve. For Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$1.33 1 1/2 2 1.45 1 3/4 2 1.94 1 1 2 2.42 1 1/2 2 3.14 2 4.51



No. 42N5838 Vertical Check Valve. For Shpg. Wt., In. Abt., Lbs. Price 1/2 1 \$0.51 1 1/2 2 .54 1 3/4 2 .70 1 1 2 1.25 1 1/2 2 1.76 1 3/4 2 2.44 2 3.73

No. 42N6406 Glass Tubes for Water Gauge. For pressure of 150 pounds or less. Lengths other than quoted take prices of next longer tubes of same diameter. Less than six glasses not sold. Shpg. wt., six glasses, abt. 2 1/2 lbs. Lth. For 6 Per For 6 Per For 6 Per In. 1/2 In. Doz. 1/2 In. Doz. 3/4 In. Doz. 10 \$0.70 \$1.20 \$0.70 \$1.20 \$0.85 \$1.44 11 .75 1.30 .75 1.30 .85 1.58 12 .85 1.44 .85 1.44 1.00 1.73 13 .85 1.54 .85 1.54 1.10 1.92 14 .95 1.68 .95 1.68 1.15 2.04 15 1.00 1.78 1.00 1.78 1.20 2.20

No. 42N6021 Gauge Glass Cutter. Made of Jessop's steel. Shpg. wt., abt. 6 oz. Price.....\$6.00

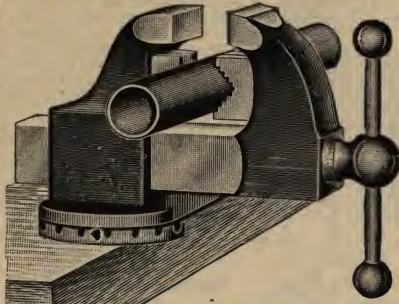
Before Ordering Fittings Read About Sizes at Bottom of Page 1606.

No. 42N6351 Adjustable Lever Whistle Valve. Made of brass. Size, Shpg. Wt., In. Abt., Lbs. Price 1 1/2 1 \$1.48 1 3/4 2 1.87 2 3 2.20 2 1/2 4 2.58 3 6 3.68

25

Tools That Every Blacksmith, Automobile Owner,

Just the Tool You Need for the Work Bench in Your Garage or Shop.



A Combination Bench and Vise on a swivel base. Can be quickly turned in any direction or any shape. Made extra strong for hard usage. Jaws are made of tempered tool steel. Screw and lever handle are cold rolled steel. Front pipe jaw is reversible.

Screw works inside of slide, out of way of dirt and filings. Finished in dull black, with polished slide, jaws and handle.

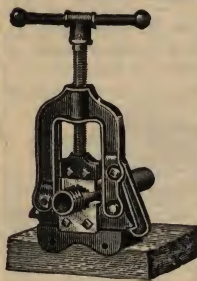
No. 42N5976 1/2 Size 0. Takes pipe 1/2 to 1 1/2 inches. Shipping weight, about 20 pounds. Price.....\$7.00

Size 1. Takes pipe 1/2 to 2 inches. Shipping weight, about 55 pounds. Price.....\$9.60

Size 2. Takes pipe 1/2 to 3 inches. Shipping weight, about 73 pounds. Price.....\$13.00

For Other Vises See Page 1444 of Our Big General Catalog No. 137.

Quick Action Pipe Vise.



Give handle half a turn, lift up latch, raise top of vise and you can take pipe out sideways. Holds pipe, rods and bars while you cut and thread them or screw fittings on or off. Made of malleable iron with steel jaws, guaranteed not to break.

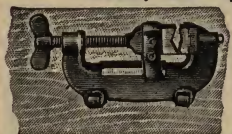
No. 42N5969 1/4 No. 0. Holds pipe from 3/4 to 1 1/2 inches. Shipping weight, about 8 pounds. Price.....\$2.10

No. 42N5970 1/4 No. 1. Holds pipe from 1/2 to 2 1/2 inches. Shipping weight, about 15 pounds. Price.....\$2.95

No. 42N5972 1/4 No. 2. Holds pipe from 1/2 to 3 inches. Shipping weight, about 20 pounds. Price.....\$4.40

No. 42N5971 Steel Jaws for above. Jaws for No. 0 vise. Price per set.....\$0.60
Jaws for No. 1 vise. Price per set......80
Jaws for No. 2 vise. Price per set......90

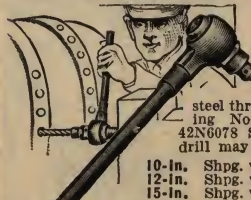
Handy Kit Pipe Vise.



No. 42N5968 1/4 Carry it in your tool bag. Can be used in any position and attaches to anything to which the two lag screws can be fastened. Has new type jaws that grip pipe without crushing or stripping it. The greater the strain on the pipe the harder the jaws grip it. Takes pipe from 1/2 to 2 inches. Shipping wt., about 4 lbs. Price.....\$2.25

Drills Holes in Iron, Steel, Marble or Wood.

Monarch Drill Ratchet.



No. 42N6076 Has feed screw and compact head for use in close places. Withstands hard usage. Made of steel throughout. By attaching No. 42N6077 or No. 42N6078 Sleeve, round shank drill may be used.

10-in. Shpg. wt., 3 1/2 lbs. \$4.25
12-in. Shpg. wt., 5 1/2 lbs. 4.75
15-in. Shpg. wt., 7 lbs. 5.50

Twist Drills for Above Ratchet.

No. 42N6088 Tool Steel Twist Drills with shank to fit Monarch Ratchet. Average shipping weight, about 10 ounces.

Diam., In.	Price	Diam., In.	Price
3/16	\$0.90	3/8	\$1.18
1/8	.99	1/2	1.22
5/16	1.08	5/8	1.26
3/8	1.14	3/4	1.40

For Other Twist Drills See Page 1441 of Our Big General Catalog No. 137.

Ratchet Drill Sleeve.

Fits No. 42N6076 Ratchet. This sleeve permits the use of round shank drills. Shipping weights, about 8 and 12 ounces.

No. 42N6077 For 1/2-inch round shank drills. Price, \$1.25

No. 42N6078 For 3/4-inch round shank drills. Price.....\$1.30

Here Is a Handy Pipe Threading Tool.

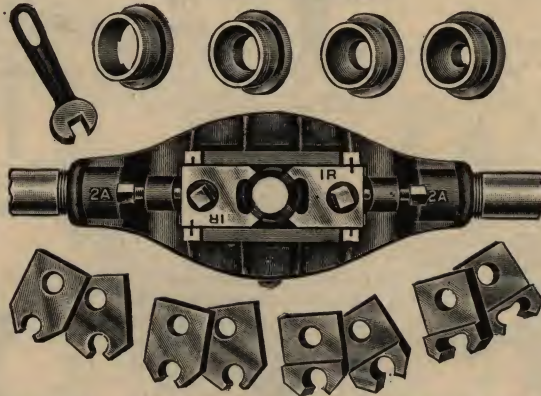


No. 42N6011 Hercules 3 in pipe stock with three dies and guides to thread 3/4, 1/2 and 3/8-inch pipe. Price.....\$8.00

No. 42N6012 Extra dies for above stock, pipe sizes, 3/4, 1/2, 3/8, 1/4, 1/8 and 1 inch. Price, each size.....\$1.00

No. 42N6013 Extra guides for above stock, pipe sizes, 3/4, 1/2, 3/8, 1/4, 1/8 and 1 inch (the stock acts as a guide for 1-inch pipe). Price, each size.....20c

You Can Adjust and Resharpen the Dies in These Stocks.



Hercules Adjustable Stocks are fitted with dies that can be adjusted to cut a deep or shallow thread on the pipe. This is very convenient when threading pipe for old fittings that have been spread or for new ones that are not tapped quite deep enough. The dies are quick and easy cutters and can be sharpened on grindstone or emery wheel when worn. Each die has a double taper, forming a lead which causes them to start on the pipe without filing, even when there is a swell or burr.

No. 42N6014 Hercules No. 2 Adjustable Stock and Dies. Threads 3/4, 1/2, 3/8 and 1 inch, right hand. Complete as illustrated. Shipping weight, about 17 pounds. Price, per set.....\$6.10

Extra Pipe Dies, each size, two pieces. Price.....1.00
Extra Guides, Price, each size......20

No. 42N6015 Hercules No. 2 1/2 Adjustable Stock and Dies with four dies, cutting 3/4, 1/2, 3/8 and 1 1/4 inches, right hand. Furnished with handles, dies and guides, complete. Shipping weight, about 23 pounds. Price, per set.....\$7.20

No. 42N6020 Hercules No. 2 3/4 Stock and Dies, furnished with dies to thread from 3/4 to 1 1/4-inch pipe. Price, per set.....\$10.80

Extra Pipe Dies for either of above numbers, each size, two pieces.....1.75
Extra Guides, Price, each size......25

No. 42N6016 1/4 Hercules No. 3 Adjustable Stock and Dies. Complete with three size dies, cutting 1 1/4, 1 1/2 and 2 inches, right hand. Shipping weight, about 29 pounds. Price, per set.....\$9.35

Extra Pipe Dies, each size, two pieces. Price.....2.50
Extra Guides, Price, each size......25

No. 42N6017 1/4 Hercules No. 6 Adjustable Stock and Dies. Shipping weight, about 80 pounds. Price, complete with 2 1/2 and 3-inch dies.....\$24.00

No. 42N6018 1/4 Hercules No. 7 Adjustable Stock and Dies. Shipping weight, about 100 pounds. Price, complete with 3 1/2 and 4-inch dies.....\$27.25

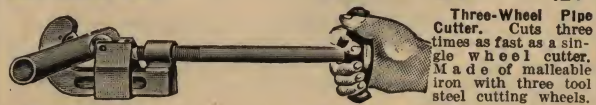
NOTICE—All parts of above will interchange with standard makes of Armstrong Stocks and Dies.
Prices quoted on application for dies or guides for No. 42N6017 1/4 and No. 42N6018 1/4 stock and dies. When writing be sure to state size wanted.
For Blacksmiths' Die Stocks See Page 1438 of Our Big General Catalog No. 137.

Two Reliable Cutters for Pipe or Tubing.



Saunders Pattern Pipe Cutter. Wheel cuts groove in pipe and the two rollers roll edges down smooth. Made of malleable iron with tool steel cutting wheel.

No. 42N5996	No. 1	No. 2	No. 3
Cuts pipe from.....	1/2 to 1 in.	1 to 2 in.	2 to 3 in.
Shipping weight, about, pounds.....	5	7	14 1/2
Price.....	\$1.35	\$2.05	\$5.15
Extra wheels, each.....	1.1 1/2	.15	.28



Three-Wheel Pipe Cutter. Cuts three times as fast as a single wheel cutter. Made of malleable iron with three tool steel cutting wheels.

No. 42N5987	No. 1	No. 2	No. 3
Cuts pipe from.....	1/2 to 1 in.	1/2 to 2 in.	1 1/2 to 3 in.
Shipping weight, about, pounds.....	5	6 1/2	10 1/2
Price.....	\$1.90	\$2.50	\$4.20
Extra wheels, each.....	.11	.13	.16

A Quick and Easy Pipe Threader.



An easy to use, solid die, pipe threading stock for those desiring to do their own pipe fitting, as well as for the plumber or steamfitter. The various dies and guides can be quickly interchanged, as they are in one piece and need no adjusting. Stocks are made of malleable iron, cutters in dies are of tempered tool steel. Guaranteed to cut a clean, sharp thread. Nos. 2 and 3 furnished with leader screw, as shown in illustration. Leader screws not furnished with other sizes.

No. 42N6000 1/4 No. 0. Threads pipe 1/4, 1/8, 3/8 and 1/2 inch. Dimensions of dies, 2 1/2 x 3 1/2. Shipping weight, about 6 1/2 pounds.

Price, complete with dies and guides.....\$4.25
Extra dies, each......85
Extra guides, each......15

No. 42N6001 1/4 No. 1. Threads pipe 1/4, 3/8, 1/2 and 3/4 inch. Dimensions of dies, 2 1/2 x 3 1/2. Shipping weight, about 13 1/2 pounds.

Price, complete with dies and guides.....\$5.70
Extra dies, each......96
Extra guides, each......18

No. 42N6002 1/4 No. 1 1/4. Threads pipe 3/4, 1 and 1 1/4 inches. Dimensions of dies, 3 x 3 1/2. Shipping weight, about 14 pounds.

Price, complete with dies and guides.....\$5.15
Extra dies, each.....1.20
Extra guides, each......21

Nos. 42N6003 1/4 42N6004 1/4 42N6004 1/4 No. 1 1/2 No. 2 No. 2 1/2
pipe, in.....1 1/4, 1 1/2 1 1/2 1 1/2 1 1/2 2
Dimensions of dies.....3 x 3 1/2 3 x 3 1/2 4 x 3 1/2
Shpg. wt., abt., lbs.....13 20 23 1/2

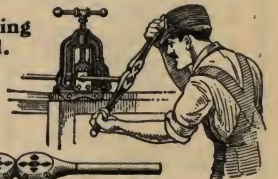
Price, complete with dies and guides.....\$5.20 \$8.90 \$7.60
Extra dies, each.....1.20 1.20 1.70
Extra guides, each......21 .21 .25

No. 42N6005 1/4 Size 3. Threads pipe 2 1/2 and 3 inches. Size of dies, 5 1/2 x 1 1/2 inches. Shipping weight, about 53 pounds. Price.....\$19.15

Extras dies, each \$4.56; extra guides, each .55

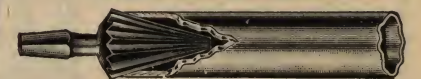
For taps see No. 42N6060 on this page. They are not included at above prices.

For Threading Pump Rod.



No. 42N6095 Pump rod stock with two dies for threading 3/4 and 7/16-inch pump rod, to fit Nos. 42N5620 and 42N5621 rod couplings, shown on page 33. Dies are adjustable, made of tempered tool steel, set in malleable iron stock. Shipping weight, about 2 pounds. Price.....\$2.90

Cuts the Burr Out of Pipe or Tubing. Fits Common Bit Brace.

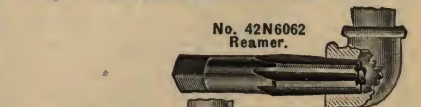


No. 42N6063 Tempered Tool Steel Burring Reamers. For reaming pipe from 1/2 inch to 1 inch, also countersinking. Shipping wt., about 8 ounces. Price......72c

No. 42N6064 For 3/4 to 1 1/4-inch pipe. Shipping weight, about 8 ounces. Price.....\$1.00

No. 42N6065 For 1 to 2-inch pipe. Shipping weight, about 3 pounds. Price.....\$1.90

Pipe Thread Reamers and Taps.



No. 42N6062 Reamer. Drill the hole, ream it out, tap it and then screw in the pipe. Reamers and taps are both made of tempered tool steel and are the same price.

No. 42N6060	No. 1	No. 2	No. 3
Size, inch.....	1/2	3/4	1 1/2
Shpg. wt., abt., oz.....	2	4	6
Price.....	\$3.60	\$4.00	\$4.90
Size, inches.....	1	1 1/2	2
Shpg. wt., abt., lbs.....	1	1 1/2	2 1/2
Price.....	\$1.12	\$1.35	\$1.65

For lead pipe and soil pipe tools see page 21.

Farmer, Plumber and Steamfitter Should Have

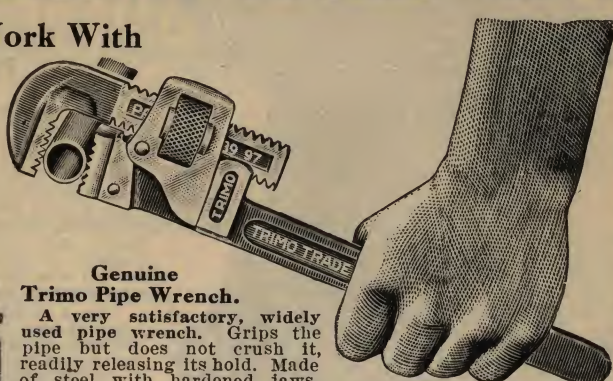
It Is a Pleasure to Work With
a Reliable
Pipe
Wrench



Stillson Pipe Wrench.

An old, reliable pipe wrench used by plumbers and steamfitters everywhere. Made of good quality tool steel, nicely finished; 6, 8, 10 and 14-inch wrenches fitted with wood handle; 18, 24, 36 and 48-inch fitted with steel handle. These Stillson wrenches are high grade in every respect, made to stand hard and rough usage.

	No. 42N6149	No. 42N6147
Length, open, inches	6 8 10 14 18 24 36 48	6 8 10 14 18 24 36 48
Takes pipe, inches. 1/2 to 3/4 3/4 to 1 1 to 1 1/4 1 1/4 to 2 2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4 4 to 5		
Shpg. wt., abt., lbs.	1/2 1 1 1/2 2 3 5 10	1/2 1 1 1/2 2 3 5 10
Price	80c 90c \$1.00 \$1.40 \$2.00 \$2.90 \$5.40 \$8.00	88c 98c \$1.10 \$1.54 \$2.20 \$3.20 \$5.95 \$8.80



Genuine Trimmo Pipe Wrench.

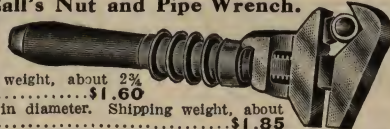
A very satisfactory, widely used pipe wrench. Grips the pipe but does not crush it, readily releasing its hold. Made of steel with hardened jaws. Movable jaw and nut are made with round top and bottom thread. Guaranteed not to strip or burr. Parts can be renewed at a small expense.

	No. 42N6149	No. 42N6147
Length, open, inches	6 8 10 14 18 24 36 48	6 8 10 14 18 24 36 48
Takes pipe, inches. 1/2 to 3/4 3/4 to 1 1 to 1 1/4 1 1/4 to 2 2 to 2 1/2 2 1/2 to 3 3 to 3 1/2 3 1/2 to 4 4 to 5		
Shpg. wt., abt., lbs.	1/2 1 1 1/2 2 3 5 10	1/2 1 1 1/2 2 3 5 10
Price	80c 90c \$1.00 \$1.40 \$2.00 \$2.90 \$5.40 \$8.00	88c 98c \$1.10 \$1.54 \$2.20 \$3.20 \$5.95 \$8.80

A Pipe and Monkey Wrench All in One

Genuine Bemis & Call's Nut and Pipe Wrench.

With wrought bar and casehardened jaws and adjusting nut. Parts easily replaced; furnished with long adjusting nut. No. 42N6164 10-inch, takes pipe 1/2 to 1 inch in diameter. Shipping weight, about 2 1/2 pounds. Price \$1.60



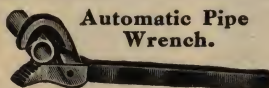
12-inch, takes pipe 1/2 to 1 1/4 inches in diameter. Shipping weight, about 4 pounds. Price \$1.85
15-inch, takes pipe 1/2 to 2 1/4 inches in diameter. Shipping weight, about 5 1/2 pounds. Price \$2.60

Genuine Bemis & Call's Short Nut Wrench.

No. 42N6165 Same as No. 42N6164 at left, except furnished with short adjusting nut instead of long.



Length, 10 inches. Shipping wt., about 2 1/2 lbs. Price...\$1.50
Length, 12 inches. Shipping wt., about 3 1/2 lbs. Price...1.70
Length, 15 inches. Shipping wt., about 5 lbs. Price...2.40



Automatic Pipe Wrench.

No. 42N6150 Grips pipe without adjustment. Made of drop forged steel with polished head.

	No. 42N6150	No. 42N6151	No. 42N6152	No. 42N6153
Length, in.	10	14	18	24
Takes pipe, inches. 1/2 to 1 1/2 to 1 3/4 to 2 1/2 to 3				
Shpg. wt., abt., lbs.	1 1 1/2 2 3			
Price	80c \$1.08 \$1.60 \$2.40			



A Tong for Turning Pipe.

No. 42N6122 1/2 Solid steel pipe tongs, drop forged.

Number	Takes Pipe From, In.	Shpg. Wt., Abt., Lbs.	Price
1	1/2 to 3/4	3 1/2	\$0.90
2	3/4 to 1	4 1/2	1.15
3	1 to 1 1/4	5	1.30
4	1 1/4 to 2	13	1.80
5	2 to 3	21	4.05

They Hold Tight and Withstand the Strain.

Brock's Pipe Wrench.



Forged from bar steel, with removable jaw. Teeth are milled and tempered. Chain made of special steel. Guaranteed against defects.

	No. 42N6167 1/4
Size No. 1. Will hold pipe 1/4 to 2 inches; length, 20 inches. Shipping weight, about 5 pounds. Price...	\$2.65
Size No. 2. Will hold pipe 1/4 to 3 inches; length, 27 inches. Shipping weight, about 8 pounds. Price...	\$3.85
Size No. 3. Will hold pipe 1/4 to 6 inches; length, 37 inches. Shipping weight, about 24 pounds. Price...	\$5.40

Hercules Chain Wrench.

Has a double set of jaws with teeth slanted so as to allow it to take an immediate hold on pipe, and also force jaws against handle instead of spreading them. All parts interchangeable. Made of wrought steel.

	No. 42N6168 1/4
Size	1 2 3
Length, inches	20 27 45
Will hold pipe, in.	1/4 to 1 1/4 to 2 1/4 to 3 1/4 to 6
Shpg. wt., abt., lbs.	5 14 24
Price	\$2.95 \$4.10 \$7.45

The Tool for Home, Shop or Garage.



Holds material of any shape, square or round or oval. Length, 7 inches. Drop forged steel, nickel plated. Shpg. wt., 1 lb. No. 42N6138 Price...75c

Handy Adjustable Wrenches.

No. 42N6146 For gripping pipe, bolts, rods, etc. Well made with jaws and nut of steel. Length, 6 inches. Takes pipe 1/2 to 3/4 inch. Shpg. wt., about 8 oz. Price...65c

Length, 8 inches. Takes pipe 1/2 to 1 inch. Shpg. wt., abt. 1 lb. Price...80c
Length, 10 inches. Takes pipe 1/2 to 1 1/4 inch. Shpg. wt., about 2 lbs. Price...\$1.02
Length, 12 inches. Takes pipe 1/2 to 1 1/2 inch. Shpg. wt., about 3 1/2 lbs. Price...\$1.30

Same as above, except has jaws at both ends. One for bolts or pipe, the other for squares or hexagons. Takes pipe 1/2 to 1 1/2 inch. Shipping weight, about 8 ounces. No. 42N6144 Price 94c

Gasoline Blue Blast Torch.



With soldering copper attachment. High quality brass. No. 42N1770 Capacity, 1 pint. Shipping wt., about 4 1/2 lbs. Price...\$4.25

No. 42N1771 Capacity, 1 quart. Shipping weight, about 6 1/2 pounds. Price, \$4.60

Brass Spray Nozzle. Used with No. 42N1771 Torch for exterminating bugs and insects or for any other purpose for which a fine stream of gasoline is desired. Shpg. wt., about 8 oz. No. 42N1777 Price...1.50

Plumbers' Melting or Pouring Ladle. No. 42N1780. Wrought iron, with two pouring lips. Size across bowl, in. 3 4 5 Shipping wt., about, 12 oz. 1 lb. 1 1/4 lbs. Price...30c 35c 40c

3-inch ladle fits Melting Pot No. 42N1769.

Melting Pot. To fit No. 42N1767 1/4 and No. 42N1768 1/4 Furnaces. Shipping weight, about 4 pounds. No. 42N1769 Price...4.00

Use a Blow Torch! Use a Blast Furnace!

Have you a soldering copper to heat? Have you old paint on wood or metal to burn off? Do you have frozen water pipes in the winter to thaw out? Use a Blow Torch. Have you solder or lead to melt? Have you more than one soldering copper to heat at the same time? Do you ever go camping? Use a Blast Furnace and Camp Stove.

Combination Gasoline Furnace.



Heats soldering irons and melts lead or solder at the same time. Compact. Reliable. Has new type burner, designed for outdoor or indoor use, with swivel joint so it can be turned to horizontal or vertical position. Hood can be removed by loosening one thumb screw, and tank with burner used separately. Reservoir holds 3 quarts of gasoline and is made of pressed steel with welded seam and connection. Fitted with brass filler plug and improved brass pump with needle stop valve. Hood has cover, soldering iron rest and wind shield. Height, 12 in.; diameter, 8 1/4 in. Shpg. wt., abt. 11 lbs. No. 42N1767 1/4 Price...\$8.75

Gasoline Plumbers' Blast Furnace and Camp Stove.

Easy to generate. Compact, well made and reliable. Lift off top and furnace makes a very satisfactory camp stove for cooking, frying, etc. Produces a hot blue flame. Melts lead or solder quickly. Made of steel. Reservoir has welded seams. Shipping weight, about 12 pounds. No. 42N1768 1/4 Price...\$4.95

Melting Pot not included in above price.

Gasoline Brazing Torch.



With soldering copper attachment. Heavily constructed. Neat, compact design. No pump. Pressure created by gasoline vaporizing. Gives 1,800 degrees heat under proper conditions. Suitable for all purposes for which an intense heat is required. Can be held in any position. Copper plated steel container with oxyacetylene welded joints; adapted for rough usage. Capacity, 3/4 pint. Shipping weight, about 4 1/2 pounds. No. 42N1772 Price...\$5.90

Gasoline

Flat Blow Torch.

With soldering copper attachment. Takes but little space in your automobile tool box or plumbers' tool kit. Made flat, for use in narrow or close places. Made of brass, with steel conductor tube and needle valve. Has double check pump and bracket to prevent tipping. Size, about 7x3x2 inches. Capacity, 1 pint. Shipping weight, about 6 pounds. No. 42N1776 Price...\$6.60



Combination Tank Heater, Laundry and Cook Stove Hot Water Day and Night

Powerful and Economical—Burns Any Kind of Fuel.

Can be used in kitchen or basement in connection with hot water tank or range boiler. Fire pot through which water circulates is made hollow. This construction allows the live coals to come in direct contact with the entire inner surface and heats the water very quickly. Capacity, 30 gallons per hour. Made very heavy and substantial to withstand hard usage and give the very best service and plenty of hot water.

Heats all the water required in the home, keeps the kitchen warm and comfortable and top can be used for cooking or laundry purposes. Range boiler is not included in price. Range boilers are illustrated and priced on page 1604. Stove must be connected to boiler before starting fire.

As a laundry stove it is ideal. Has four No. 8 lids. Top is large enough to hold a big wash boiler and cooking utensils or sadirons at the same time, or a big steel or galvanized iron tub. Entire top is evenly heated.

Stove is solid cast iron from top to bottom. Has draw center grate and large ash pan. Blackened and polished, ready to set up and use. Securely crated for shipment.

We guarantee safe delivery and ship at once from CHICAGO, ILL., or NEWARK, OHIO, the one nearer you. When shipped from CHICAGO, stove cannot be shipped from our store with other goods.



This illustration shows the WIZARD as water heater, with pipe connection from back of stove to tank or range boiler. Plenty of hot water at all hours.

Order by Number	Price	Size of Lids	Inside Diameter, of Fire Pot, Inches	Cooking Top, Inches	Height to Cooking Top, Inches	Size Water Pipe, Inch	Size Smoke Pipe, Inches	Shipping Weight, About, Pounds
22N585	\$14.25	No. 8	9½	20½x21½	26¼	¾	6	175

Heats a 30-Gallon Range Boiler in 45 Minutes.

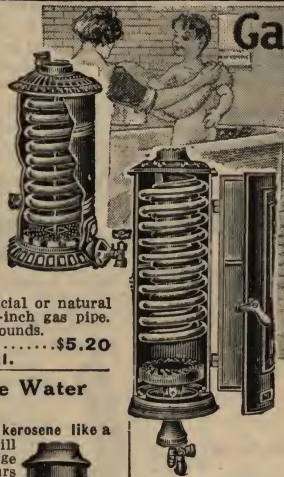
No. 42N1080½ Perfection Gas Water Heater. Has asbestos lined Russia iron jacket, brass unions for ¾-inch iron water pipe and seamless copper coil. Coil shaped so greatest amount of surface is directly exposed to flame and conical deflector forces heat around coil instead of rising through center. Costs little to operate. Artificial or natural gas. Valve is tapped for ¾-inch gas pipe. Shipping weight, about 20 pounds. Price\$5.20

Read top of page 21.

Hercules Kerosene Water Heater.

No. 42N1074½ Burns kerosene like a blue flame kerosene stove. Will keep a 30-gallon kitchen range boiler hot for twenty-four hours (a whole day) on 1 gallon of kerosene. A serviceable, inexpensive means of supplying hot water in the country or suburban home having running water supplied by an attic or elevated tank, or a water pressure system, but no city gas. Has four spiral copper coils and a cast iron jacket. Tapped for ¾-inch iron pipe. Removable reservoir holds 1 gallon of kerosene and is fitted with glass tube showing height of oil. Shipping weight, about 55 lbs. Price.....\$17.50

Read top of page 21.



Gas, Kerosene and Gasoline Water Heaters

Top of page 21 shows proper connection of these heaters with range boilers. Connect heater to chimney with 3 or 4-in. stovepipe.

Has a Cast Iron Coil.

Wehrle Gas Water Heater. Heats a 30-gallon range boiler in about 45 minutes. Furnished with a steel jacket in one piece with asbestos and galvanized iron lining or a cast jacket in two halves, one acting as door. Water is heated by passing through coil consisting of cast iron discs exposed to gas flame. Tapped for ¾-inch iron gas pipe and ¾-inch iron water pipe. Shipping weight, about 65 pounds.

If wanted for natural gas allow 50 cents extra.

No. 42N1061½ Steel Jacket Heater with 5 discs for 30-gal. boiler. Price.....\$5.25

No. 42N1062½ Steel Jacket Heater with 7 discs for 40 or 52-gallon boiler. Price.....\$6.05

No. 42N1063½ Cast Iron Jacket Heater with 5 discs for 30-gallon boiler. Price.....\$5.40

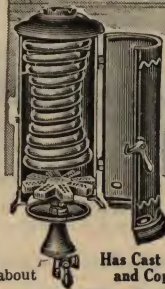
No. 42N1064½ Cast Iron Jacket Heater with 7 discs for 40 or 52-gallon boiler. Price.....\$6.85

Read top of page 21.

Double Copper Coil Gas Water Heater.

No. 42N1082½ Furnishes abundance of hot water for bath, kitchen and laundry when connected to a 30, 40 or 52-gallon range boiler. Heats a 30-gallon range boiler in 25 minutes. Very satisfactory for heating; 18 feet of ¾-inch copper tubing in two coils, as illustrated. Cast iron jacket. Burner cast with drilled outlets and fitted with gas valve and air mixer. Coil inlet and outlet for ¾-inch water pipe. Gas valve tapped for ¾-inch pipe. Maximum gas consumption, 50 to 60 feet per hour. Shipping weight, about 42 pounds. Price.....\$8.20

Read top of page 21.



Has Cast Iron Jacket and Copper Coil.

No. 42N1086½ Cast Iron Jacket Gas Water Heater. Will heat a 30-gallon range boiler in about 40 minutes. Has cast iron burner and single copper coil. Burner fitted with brass valve threaded for ¾-inch gas pipe. Coil is double cone shape with cast heat deflector at top. It is made of copper tubing fitted with brass connections for ¾-inch pipe. Cast iron jacket is in two parts, one-half acting as door. Shipping weight, about 30 pounds. Price.....\$6.15

Read top of page 21.

Warms the Water While It Runs Through the Heater.

No. 42N224½ Instantaneous Gas Water Heater. Connected direct to city pressure. No boiler necessary. Hot water flows out of side of heater, but will not force hot water to fixture above heater. Made of copper, nickel plated. Diameter 11 in.; height, 30 in.; will heat 2 to 3 gallons of water per minute to a temperature suitable for all household purposes. Fitted for ¾-inch water pipe and ½-inch gas pipe. State whether wanted for natural or artificial gas. Shipping weight, about 65 lbs. Price.....\$30.00

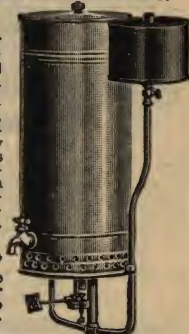
Just the Thing Where Neither City Gas Nor Water Pressure Are Available.

No. 42N217½

Gasoline Water Heater. Made of galvanized iron, nickel plated outside. Reservoir holds about 11 gallons of water. Draft chimney is entirely surrounded by water. This makes the water heat quicker. Will heat enough water for bath in fifteen to twenty minutes. Shipping wt., about 38 pounds.

Price.....\$9.50

Above cannot be connected with water pressure and no range boiler is required.



Hercules Tank Heaters

For Heating Range Boilers and Storage Tanks.

Burn coal, wood or coke. Used for heating a range boiler to supply hot water for the kitchen and laundry; for heating large storage tanks, for supplying hot water to the different flats in a flat building, to keep the water in large stock tanks from freezing, for heating small greenhouses and swimming pools. Made of cast iron throughout. Each heater is tested to withstand a pressure of 40 pounds. Shipped from the factory in SOUTHEASTERN MICHIGAN. Prices are subject to market changes.

Hercules Jr. Tank Water Heater With One-Hole Top.

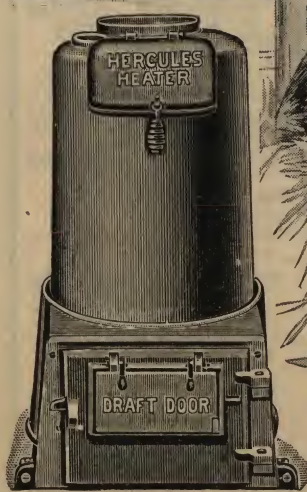
No. 42N2015½

No.	Hot Water per Hour, Gallons	Capacity in Square Feet of Radiation	Inside Diam. of Fire Pot	Height	Size Water Pipe	Size Smoke Pipe	Shpg. Wt., Lbs.	Price
10	75	50	10 in.	25 in.	1½ in.	6 in.	230	\$16.50

Hercules Tank Heaters With Front Fuel Door.

No. 42N2016½

No.	Hot Water per Hour, Gallons	Capacity in Square Feet of Radiation	Inside Diam. of Fire Pot	Height	Size Water Pipe	Size Smoke Pipe	Shpg. Wt., Lbs.	Price
12	150	120	12 in.	25 in.	1½ in.	6 in.	250	\$20.00
14	200	160	12 in.	27 in.	1½ in.	6 in.	270	\$27.50

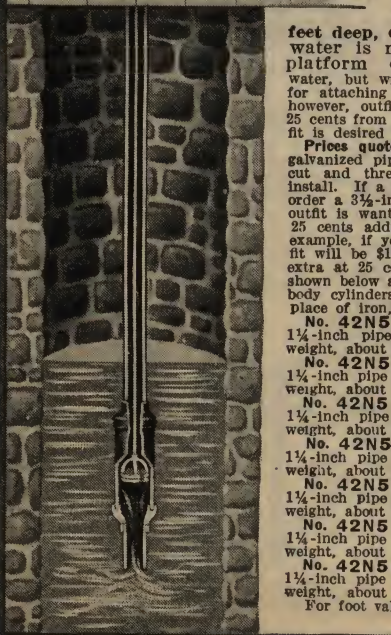


No. 42N2015½



No. 42N2016½

HIGH GRADE PUMPS AT POPULAR PRICES

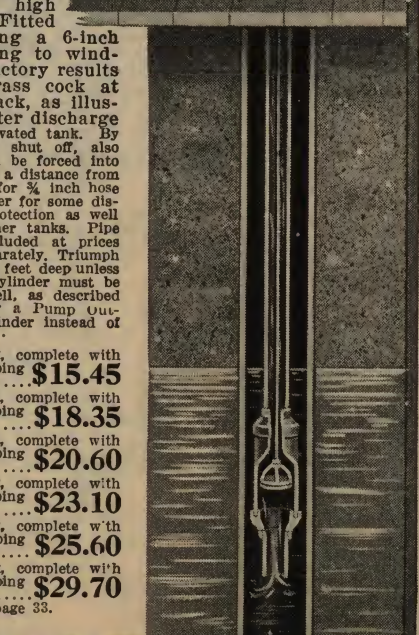


These Pump Outfits Are Complete, Ready to Put Into Your Well

All you need for installing them is a pipe wrench. Just screw the pipe and rod together and drop it down into your well. It is very simple; anyone can do it.

Each outfit consists of a pump, pump cylinder, suction pipe and cylinder rod. The pipe and rod are just the right length to fit down into a well of the depth for which the outfit is intended.

Outfits Nos. 42N5100 $\frac{1}{4}$ to 42N5106 $\frac{3}{4}$ raise the water from the well to the pump spout. It flows from the spout by gravity. Outfits Nos. 42N5130 $\frac{1}{4}$ to 42N5135 $\frac{1}{4}$ raise the water from the well and force it out of the spout or through the opening in the back. They can, therefore, be used for sprinkling, washing windows, etc., or for forcing the water into an elevated storage tank.



Eureka Anti-Freezing Lift Pump Outfit.

For Hand or Windmill Pumping.
For Dug or Open Wells.

A heavily constructed lift pump guaranteed to give excellent results in wells up to 30 feet deep, cylinder to be lowered whenever water is more than 25 feet below pump platform on page 30. Pump will lift water, but will not force it. Has combination head for attaching to windmill or pumping by hand. If, however, outfit is desired for hand use only, deduct 25 cents from prices shown below and specify that outfit is desired for hand use only.

Prices quoted below are for complete outfit, pump, galvanized pipe, 3x10-inch iron cylinder and rod, all cut and threaded to the proper lengths. Easy to install. If a rather large quantity of water is desired, order a 3 $\frac{1}{2}$ -inch cylinder, allowing 50 cents extra. If outfit is wanted for wells deeper than 50 feet, allow 25 cents additional for each foot over 50 feet. For example, if your well is 75 feet deep, the cost of outfit will be \$18.25 for 50-foot well outfit, plus 25 feet extra at 25 cents a foot, \$6.25; total, \$24.50. Prices shown below are for pumps with iron cylinders. Brass body cylinders are more serviceable and if wanted in place of iron, add \$3.30 extra.

No. 42N5100 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 10-foot well. Shipping \$8.50 weight, about 90 pounds. Price.....

No. 42N5101 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 15-foot well. Shipping \$9.70 weight, about 102 pounds. Price.....

No. 42N5102 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 20-foot well. Shipping \$10.60 weight, about 114 pounds. Price.....

No. 42N5103 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 25-foot well. Shipping \$11.50 weight, about 126 pounds. Price.....

No. 42N5104 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 30-foot well. Shipping \$13.50 weight, about 138 pounds. Price.....

No. 42N5105 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 40-foot well. Shipping \$15.75 weight, about 174 pounds. Price.....

No. 42N5106 $\frac{3}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 50-foot well. Shipping \$18.25 weight, about 200 pounds. Price.....

For foot valves and strainers see page 33.

Triumph Windmill Force Pump Outfit.

Also for Hand Pumping.

Especially designed to meet a large demand for a substantial high grade force pump outfit. Made of high quality material throughout. Fitted with 3x10-inch cylinder having a 6-inch stroke. Adapted for connecting to windmill, but also gives very satisfactory results when operated by hand. Brass cock at spout and brass shut off at back, as illustrated, enables changing of water discharge from spout to pipe leading to an elevated tank. By connecting 1-inch galvanized pipe to shut off, also known as back attachment, water can be forced into an elevated tank or reservoir placed at a distance from the pump. Cock at spout is threaded for $\frac{3}{4}$ inch hose and pump will throw a stream of water for some distance. An excellent pump for fire protection as well as supplying water to storage or other tanks. Pipe leading from pump to tank not included at prices quoted below. It must be ordered separately. Triumph outfits cannot be used in wells over 25 feet deep unless diameter is $\frac{3}{4}$ inches or more, as cylinder must be lowered into or near the water in well, as described on page 30, headed "How to Order a Pump Outfit." If wanted with brass body cylinder instead of iron, add \$3.30 extra.

No. 42N5130 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 20-foot well. Shipping \$15.45 weight, about 125 pounds. Price.....

No. 42N5131 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 30-foot well. Shipping \$18.35 weight, about 175 pounds. Price.....

No. 42N5132 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 40-foot well. Shipping \$20.60 weight, about 210 pounds. Price.....

No. 42N5133 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 50-foot well. Shipping \$23.10 weight, about 240 pounds. Price.....

No. 42N5134 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 60-foot well. Shipping \$25.60 weight, about 270 pounds. Price.....

No. 42N5135 $\frac{1}{4}$ Pumping Outfit, complete with 1 $\frac{1}{4}$ -inch pipe for 75-foot well. Shipping \$29.70 weight, about 320 pounds. Price.....

For foot valves and strainers see page 33.

First Quality Iron Pumps, Priced Low



Anti-Freezing Lift Pump for Wells Not Over 30 Feet Deep.

Fitted with revolving top so handle may be turned as desired.

Suction pipe screws into pump at spout. This prevents freezing in cold weather. Iron cylinder 10 inches long with 6-inch stroke, fitted for 1 1/4-inch pipe. If wanted with galvanized pipe from pump to cylinder, add 50 cents extra. For information on ordering your pump outfit, see section headed "How to Order a Pump Outfit," on this page. Shipping weight, about 62 pounds.

No. 42N5256 1/4

2 1/2-inch cylinder.	Price.....	\$6.85
3-inch cylinder.	Price.....	6.90
3 1/2-inch cylinder.	Price.....	7.95
4-inch cylinder.	Price.....	8.35



Triumph Hand Anti-Freezing Lift Pump.

Has heavy revolving top so handle may be turned as desired.

For wells not more than 80 feet deep. Top of pump covered except where piston rod passes through. Piston rod connected to handle with oscillating coupling, making it work more easily. Guaranteed to give excellent results when cylinder is lowered as explained in "How to Order a Pump Outfit" on this page. Four feet of black suction pipe included. Iron cylinder, 10 inches long, 6-inch stroke. If wanted with brass body cylinder instead, add \$3.30 extra. If wanted with galvanized (instead of black) pipe from pump to cylinder, add 50 cents extra. Shipping weight, about 64 pounds.

No. 42N5264 1/4 3-inch cylinder. \$7.30
No. 42N5266 1/4 3 1/2-inch cylinder. 9.90



How to Order a Pump Outfit.

We show a complete line of pumps on the following pages at prices (quality considered) exceptionally low. We list two styles, lift pumps and force pumps. Lift pumps merely lift the water to the spout from which it flows. Force pumps not only lift the water to the spout, but will also force it up into an attic tank, through a garden hose, or to different places on your premises.

On this page we list two complete pumping outfits, including everything cut and threaded, ready to set up. If neither of these outfits quite suits your requirements, it is easy to make up your own outfit from the pumps on the following pages. Follow the few directions given below and you will receive your outfit all cut and fitted.

If you would like an estimate from us, send us the dimensions of your well, stating diameter, distance from surface of ground to water, and total depth of well, and tell us whether you wish to lift or force the water.

To figure your own outfit, first measure the depth and width of your well, also the distance from ground to water. Then select a pump to fit your needs. This will depend upon the amount of water you use, the depth of your well, and whether pump is to be operated by hand, windmill or belt power. The larger the cylinder and the longer the stroke, the greater amount of water can be pumped per stroke. For ordinary purposes a 3-inch cylinder and a 6-inch stroke are sufficient. With a deep well it is necessary to use a smaller cylinder and a longer stroke, otherwise pump would work too hard. In our descriptions of pumps we advise as to the best size to use.

If distance from ground to surface of water is more than 25 feet, it will be necessary to lower cylinder. To obtain best results, place cylinder down in water. This keeps it primed at all times. For lowering cylinder we charge 7 cents a foot, which covers cutting and threading cylinder rod. This charge does not include piping.

Order sufficient pipe to reach from pump down into well, to a distance 10 feet below lowest possible water level (except when water is shallow), and sufficient extending cylinder rod to place cylinder on end of pipe. When pump includes cylinder and a piece of pipe, the distance from pump base to end of cylinder is 4 feet with the exception of Nos. 42N5323 1/4 and 42N5324, which are 6 feet, and No. 42N5352 1/4, which is 4 feet 6 inches. (See page 31.) These distances should be deducted from pipe and rod required. If there is but a small amount of water in well, say 2 or 3 feet, it is best to lower cylinder to level of water and then use a short piece of pipe that will reach to within one foot of bottom of well. Galvanized wrought pipe is listed on page 1606. In the description of each pump the size pipe required is given.

EXAMPLE: First, we will figure an outfit for a 50-foot well 6 inches in diameter with lowest possible water level 20 feet from bottom. We desire to use a hand lift pump and we will use only an ordinary amount of water is required. We will, therefore, need the following:

No. 42N5264 1/4 One pump with 3-inch cylinder.	\$ 7.30
with 4 feet of pipe and rod at 18 cents per foot.....	6.48
SPECIAL 36 feet extending cylinder rod, at 7 cents per foot.....	2.52
Total	16.30
As a second example, we will assume that the conditions are exactly the same except that there is but 2 feet of water in the well instead of 20 feet. For this outfit we will need:	
No. 42N5264 1/4 One pump with 3-inch cylinder. Price.....	\$ 7.30
No. 42N5711 1/4 45 feet 1 1/4-inch galvanized pipe (pump is furnished with 4 feet of pipe and rod) at 18 cents per foot.....	8.10
SPECIAL 44 feet extending cylinder rod, at 7 cents per foot.....	3.08
Total	\$18.48



Triumph Hand Force Pump.

Extra heavy for hard usage. Has 10-inch iron cylinder and 4 feet of 1 1/4-inch black pipe. Spout has hose and shut off clevis, enabling water to be forced through back of pump to tank through 1-in. pipe or through 3/4-in. hose for sprinkling, washing buggies, etc. If wanted with galvanized (instead of black) pipe from pump to cylinder, add 50 cents extra. For "How to Order a Pump Outfit," see above. Shipping weight, about 76 pounds.

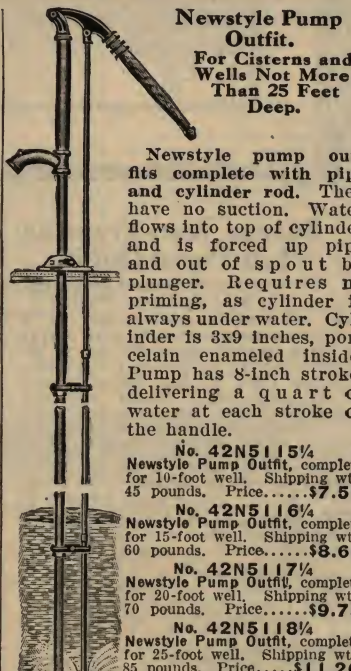
No. 42N5301 1/4	2 1/2-inch cylinder.	\$10.25
No. 42N5302 1/4	3-inch cylinder.	10.30
No. 42N5303 1/4	3 1/2-inch cylinder.	10.50

Pitcher Spout Iron Pump.

For wells or cisterns 20 feet deep or less. Has revolving top so handle may be turned as desired; 2 1/2- and 3-inch cylinders fitted for 1 1/4-inch iron pipe; 4-inch cylinder for 1 1/2-inch iron pipe. Order pipe from water to pump.

No. 42N5200 1/4	2 1/2-inch iron cylinder. Shipping wt., about 20 lbs. Price.....	\$2.18
No. 42N5200 1/4	2 1/2-inch brass lined cylinder. Price.....	\$3.60
No. 42N5202 1/4	3-inch iron cylinder. Shipping wt., about 23 lbs. Price.....	\$2.43
No. 42N5202 1/4	3-inch brass lined cylinder. Price.....	\$3.96
No. 42N5204 1/4	4-inch iron cylinder. Shipping wt., about 31 lbs. Price.....	\$3.17
No. 42N5204 1/4	4-inch brass lined cylinder. Price.....	\$5.20

No pipe included in above prices.



Newstyle Pump Outfit.
For Cisterns and Wells Not More Than 25 Feet Deep.

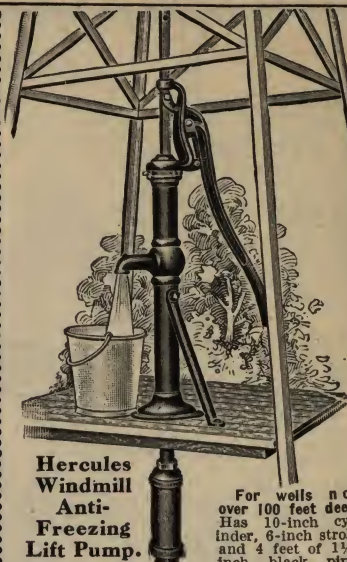
Newstyle pump outfit complete with pipe and cylinder rod. They have no suction. Water flows into top of cylinder and is forced up pipe and out of spout by plunger. Requires no priming, as cylinder is always under water. Cylinder is 3x9 inches, porcelain enameled inside. Pump has 8-inch stroke, delivering a quart of water at each stroke of the handle.

No. 42N5115 1/4 Newstyle Pump Outfit, complete for 10-foot well. Shipping wt., 45 pounds. Price.....	\$7.55
No. 42N5116 1/4 Newstyle Pump Outfit, complete for 15-foot well. Shipping wt., 60 pounds. Price.....	\$8.65
No. 42N5117 1/4 Newstyle Pump Outfit, complete for 20-foot well. Shipping wt., 70 pounds. Price.....	\$9.75
No. 42N5118 1/4 Newstyle Pump Outfit, complete for 25-foot well. Shipping wt., 85 pounds. Price.....	\$11.20

Simplex Cistern Force Pump.

For wells or cisterns 20 feet deep or less. Made of high quality cast iron, with brass cylinders, valve seat and stuffing nut. Goose-neck spout fitted with hose coupling or faucet cock, as illustrated. Tapped for 1 1/4-inch suction and 1-inch top outlet for forcing water to elevated tank. Shipping weight, about 20 pounds.

No. 42N5206 1/4 With plain spout and 2 1/2-inch cylinder. Price.....	\$6.00
No. 42N5207 1/4 With plain spout and 3-inch cylinder. Price.....	\$6.29
No. 42N5208 1/4 With faucet spout, as illustrated, and 2 1/2-inch cylinder. Price.....	\$6.72
No. 42N5209 1/4 With faucet spout and 3-inch cylinder. Price.....	\$7.00



Hercules Windmill Anti-Freezing Lift Pump.

For wells not over 100 feet deep. Has 10-inch cylinder, 6-inch stroke and 4 feet of 1 1/4-inch black pipe. Piston rod works through double guide. Has closed top. Can be operated by windmill or hand. See top of this page, "How to Order a Pump Outfit."

Prices quoted include iron cylinder. If wanted with brass body cylinder instead, add \$3.30 extra. If wanted with galvanized (instead of black) pipe from pump to cylinder, add 50 cents extra. Shipping weight, about 74 pounds.

No. 42N5276 1/4 3-inch cylinder for 1 1/4-inch pipe. Price.....	\$9.00
No. 42N5278 1/4 3 1/2-inch cylinder for 1 1/2-inch pipe. Price.....	\$9.75

Extra Heavy Lift Pump.

Heavily constructed for stock and feeding yards where large quantities of water are needed. Made of cast iron. For "How to Order a Pump Outfit," see top of this page. Prices include iron cylinder and 4 feet of 1 1/2-inch black pipe. If wanted with galvanized (instead of black) pipe from pump to cylinder, add 50 cents extra. If wanted with a brass body cylinder in place of iron on No. 42N5285 1/4 Pump, allow \$3.30 extra; if wanted on No. 42N5286 1/4 Pump, allow \$4.05 extra. Shipping weight, about 80 pounds.

No. 42N5285 1/4 3 1/2-inch cylinder. Price.....	\$10.44
No. 42N5286 1/4 4-inch cylinder. Price.....	\$10.73



Power Pumps-Wood Pumps

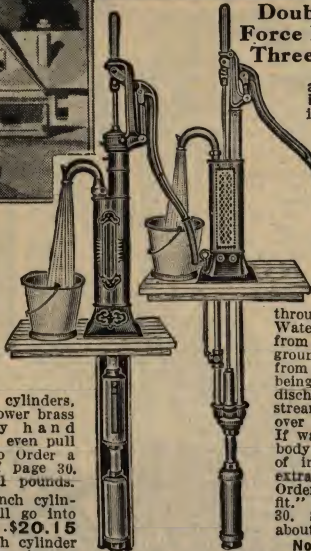
Double Acting Drilled Well Force Pump.

For small bore wells not more than 200 feet deep. Windmill head. Construction allows casing to be brought up to pump platform. Double action is caused by the two cylinders, the upper brass lined, the lower brass body. Makes operating by hand easier and causes a steady even pull on windmill. For "How to Order a Pump Outfit," see top of page 30. Shipping weight, about 141 pounds.

No. 42N5332 1/4 2 1/2-inch cylinder for 1 1/4-inch pipe. Will go into a 3-inch cased well. Price...\$20.15

No. 42N5333 1/4 3-inch cylinder for 1 1/2-inch pipe. Will go into a 3 1/2-inch cased well. Price...\$20.30

No. 42N5334 1/4 3 1/2-inch cylinder for 1 1/2-inch pipe. Will go into a 4 1/4-inch cased well. Price...\$21.40
Galvanized pipe from pump to cylinder, 80 cents extra.



Double Acting Force Pump With Three-Way Cock.

For windmill and hand pumping. Upper cylinder brass; lower cylinder of iron. Spout can be turned to right or left; has 3/4-in. hose clevis for sprinkling. Underground valve 3 feet below pump platform operated by rod extending up through pump base.

Water may be piped from 1-inch underground valve or forced from spout. Pump being double acting, discharges a steady stream. For wells not over 150 feet deep. If wanted with brass body cylinder in place of iron, allow \$3.30 extra. For "How to Order a Pump Outfit," see top of page 30. Shipping weight, about 106 pounds.

No. 42N5323 1/4 2 1/2-inch cylinder, for 1 1/4-inch pipe. Price...\$21.10

No. 42N5324 1/4 3-inch cylinder, for 1 1/2-inch pipe. Price...\$22.20

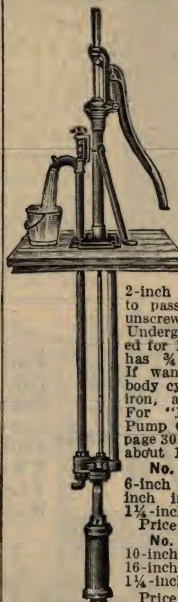
No. 42N5325 1/4 3 1/2-inch cylinder, for 1 1/2-inch pipe. Price...\$22.70

Underground Valve Force Pump.

Water can be run from spout or forced through underground valve to tank. All valve parts are underground and pipe leading to spout drains when water is forced to tank. This protects pump from freezing. Cap at top of suction pipe connection can be unscrewed, allowing plunger of 2-inch tubular cylinder to pass through without unscrewing suction pipe. Underground valve threaded for 1-inch pipe. Spout has 3/4-inch hose clevis. If wanted with brass body cylinder in place of iron, allow \$3.30 extra. For "How to Order a Pump Outfit," see top of page 30. Shipping weight, about 120 pounds.

No. 42N5352 1/4 6-inch stroke, with 3x10-inch iron cylinder, for 1 1/4-inch pipe. Price...\$17.80

No. 42N5353 1/4 10-inch stroke, with 3x16-inch iron cylinder, for 1 1/4-inch pipe. Price...\$18.25



Hercules Hand and Power Force Pump Head.

A force pump head for standard or shallow wells. Can be operated by hand, windmill or power. Heavily made of cast iron with machine steel crank pin, cross

head pins and piston rod. Brass stuffing nut and

blitted journals. Has 6, 8 and 10-inch stroke. Spout fitted with shut off and detachable connection for 1-inch hose. Pipe 2 inches in diameter or less can be connected to back of pump and run to tank or reservoir. Suction for 2 1/2-inch pipe or less. Pump has tight and loose pulleys 12 inches in diameter, 2 1/2-inch face, and is back geared 5 to 1. Shipping weight, about 185 lbs.

No. 42N5356 Hercules Hand and Power Force Pump Head. Price...\$32.00
Cylinder, pipe and rod not included in above price.

Wood Farm Pumps.

Made from first grade 6x6-inch stock, measuring about 5 1/2 inches square when dressed. Nicely painted, striped and varnished. Iron handle brackets and iron spout. For wells not over 30 feet deep. When ordering include tubing listed below to reach from bottom of pump to bottom of well. When more than 9 feet of tubing is required, order coupling for each joint to connect tubing. Shipping weight, about 33 pounds.

No. 42N5412 1/4 Length, 6 feet, for wells up to 20 feet deep.

Price, plain pump...\$4.80
Price, with porcelain lined cylinder...\$6.00

No. 42N5413 1/4 Length, 7 feet, for wells 20 to 25 feet deep.

Price, plain pump...\$5.40
Price, with porcelain lined cylinder...\$6.60

No. 42N5414 1/4 Length, 8 feet, for wells 25 to 30 feet deep.

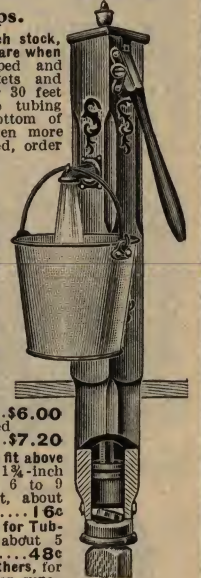
Price, plain pump...\$6.00
Price, with porcelain lined cylinder...\$7.20

No. 42N5415 1/4 Tubing to fit above pumps, 4 inches square, with 1 1/4-inch bore, in random lengths from 6 to 9 feet. Shipping weight, per foot, about 1 1/4 pounds. Per foot...16c

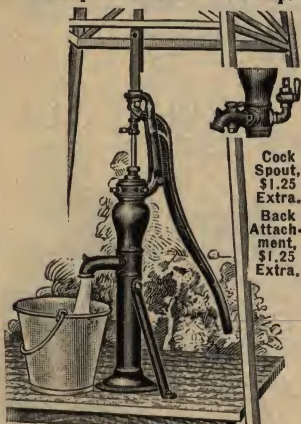
No. 42N5416 1/4 Couplings for Tubing. Shipping weight, each, about 5 pounds. Price, each...48c

No. 42N5660 Plunger Leathers, for above pumps. High quality. Far superior to cross grained leathers. Shipping weight, each, about 8 ounces.

Price, each...15c
Iron pipe cannot be used with wood pumps.



Triumph Windmill Force Pump.



Cock Spout, \$1.25 Extra.
Back Attachment, \$1.25 Extra.

For "How to Order a Pump Outfit," see top of page 30. Shipping weight, about 100 pounds.

Same as No. 42N5301 1/4 on page 30, except fitted for connection with windmill. Can be operated by windmill or hand, as desired. Prices quoted include 10-inch iron cylinder and 4 feet of 1 1/4-inch black suction pipe from pump to cylinder, add 50 cents extra.

No. 42N5310 1/4 2 1/2x10-in. cylinder. \$12.15
No. 42N5312 1/4 3 x10-in. cylinder. 12.25
No. 42N5314 1/4 3 1/2x10-in. cylinder. 12.55

Extra Heavy Windmill Standard.

A lift pump head or standard to replace your worn out pump. Can be operated by hand, windmill or pump jack and engine. Cannot be used for forcing water. Cylinder not included in prices quoted. For force pumps see No. 42N5347 1/4 or No. 42N5351 1/4. Designed especially for heavy service, such as pumping water for stock and in feed yards; made extra heavy with high spout. Two-inch pipe generally used, but we will furnish for 1 1/2 or 1 1/4-inch pipe when requested. Prices quoted do not include pipe, cylinder or rod. For "How to Order a Pump Outfit" see top of page 30. For cylinders, see No. 42N5402 1/4 to No. 42N5424 1/4, page 33. Shipping weight, about 71 pounds.

No. 42N5349 1/4 6-inch stroke...\$5.90
No. 42N5350 1/4 10-inch stroke...6.50

\$5.90
6-Inch Stroke.

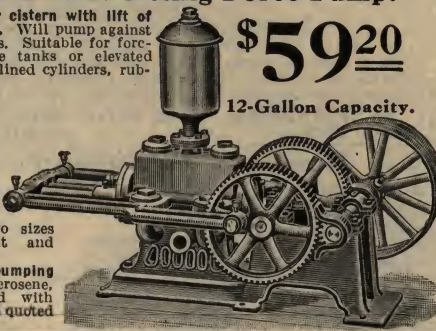


Hercules Double Acting Force Pump.

For shallow well or cistern with lift of not more than 25 feet. Will pump against pressure of 100 pounds. Suitable for forcing water to pressure tanks or elevated reservoirs. Has brass lined cylinders, rubber valves with brass seats, brass cased piston rod, babbitted journals and machine cut gears. A high quality pump at a moderate price. Back geared 4 to 1. Pump with 3x5-inch cylinder has 2 1/2x14-inch tight and loose pulleys, the other two sizes have 4x16-inch tight and loose pulleys. When wanted for pumping oils, gasoline or kerosene, pump must be fitted with special packing. Prices quoted on application.

\$59.20

12-Gallon Capacity.

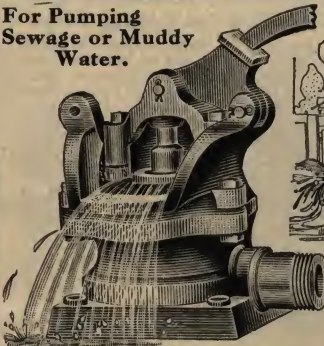


No. 42N5383 1/4

Cylinder, Inches	Capacity, Gallons	Suction, Inches	Discharge	Shipping Weight, About, Pounds	Price
3x5	12	1 1/2	1 1/4 in.	325	\$59.20
4x5	21	2	2 in.	425	68.00
5x5	34	2	2 in.	500	72.55

Capacities shown above are in gallons per minute, at forty complete strokes per minute.

For Pumping Sewage or Muddy Water.



No. 42N5205 1/4

Pump No.	Suction	Hose or Pipe	Gallons per Hour	Shipping Wt., Lbs.	Price
1	Side suction	2 1/2-in.	1,500	85	\$19.85
2	Side suction	3-in.	3,500	185	25.60
3	Bottom suction	2 1/2-in.	1,500	95	18.70
4	Bottom suction	3-in.	3,500	170	24.35

For Suction Hose See Index.

Triumph Non-Clog Diaphragm Pump. Recommended by contractors, sewer diggers and ditchers for pumping dirty or gritty water. Will quickly and easily dispose of large quantities of drainage or sewer matter, mud, gravel and quicksand. Heavily constructed throughout with large valve ways.

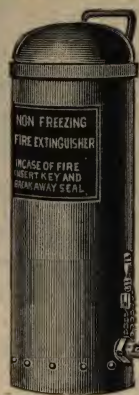
Extra Heavy Windmill Force Pump Standard.

A force pump head or standard to replace your worn out pump. For operating by hand, windmill or pump jack and engine. With brass stuffing box. Threaded in back for 1-inch pipe to lead to elevated tank. Placing shut off clevis on spout forces water to tank. Prices are for standard only. For cylinders, see No. 42N5402 1/4 to No. 42N5424 1/4 on page 33. For "How to Order a Pump Outfit," see top of page 30. Shipping weight, about 75 pounds.

No. 42N5347 1/4 6-inch stroke for 1 1/4-inch pipe. Price...\$8.05

No. 42N5351 1/4 10-inch stroke for 2-inch pipe. Price...\$8.65





Fire Fighting Apparatus and Pumps

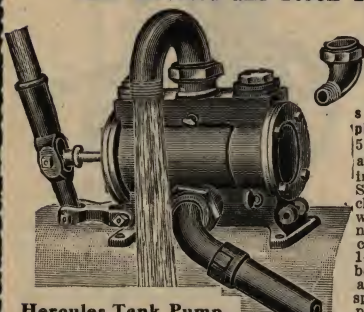
Non-Freezing Fire Extinguisher.

No. 42N501½ Contents will not freeze at 50 degrees below zero. Just the thing for barns, stables, warehouses or any other building that is not heated. To use, insert tool and jerk out seal nut. Consists of drawn steel reservoir, containing 2 gallons of solution under 90 pounds air pressure. To recharge pour in solution and pump in air with an ordinary bicycle or auto pump. Need never be recharged until used. Shipping weight, about 40 pounds. Complete directions with each extinguisher.

Price.....\$7.15

No. 42N502 Eight-Pound Can Calcium Chloride and seal for recharging extinguisher. Price.....\$9.00

For Filling Thresher Tanks and Pumping Into Elevated and Stock Tanks.



Hercules Tank Pump.

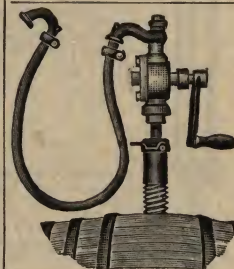
Spout attached to top of pump is reversible and can be placed under it. Pump has capacity of about 50 gallons a minute, will force water 60 feet and is equipped with brass valve seats. This tank pump is of excellent quality, workmanship and design, and will give absolute satisfaction. Shipping weight, about 78 pounds.

No. 42N5386½ Pump, complete, as shown in illustration. No hose. Price.....\$10.00

No. 42N5657 5-Inch Crimped Plunger Leathers. Shipping weight, about 8 ounces. Price, per set of two.....\$6.50

For suction hose, strainers and clamps see our big General Catalog No. 137.

Strictly a double acting pump, sucking and discharging water at each stroke of the piston. Cylinder, 5 inches in diameter with 5-inch stroke. Suction and discharge 2 inches, with extra connection for discharge so that 1-inch hose may be used, a great advantage for sprinkling, fire protection and other purposes.



Hand Rotary Barrel Pump. Simply screw suction into bung of barrel, prime pump through cap at top and turn the handle. Will force liquids 15 or 20 feet above pump. Working parts are same as Acme rotary power force pump, shown on this page. Made of iron. Furnished with 3-foot suction pipe, 5-foot discharge hose and goose neck, as illustrated. Capacity, 13 gallons per minute. Shpg. wt., about 65 lbs.

No. 42N5365½ Hand Rotary Barrel Pump. Price.....\$9.90

For Burning Rubbish of All Kinds.

No. 42N503¾

A Hercules Rubbish Burner prevents the wind from blowing the rubbish about while it is burning. It also makes a good receptacle for holding rubbish until ready to burn it. Made of heavy steel wire. Size, 14½ inches wide by 26 inches high. Shipping weight, about 20 lbs.

Price, with cover.....\$3.00

Hercules Fire Extinguisher.

Approved by the National Board of Fire Underwriters.

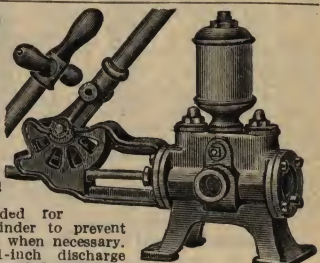
No. 42N500¼

How much would you be willing to pay for a reliable extinguisher in case of an actual fire starting in your home? How long would it take a fire to burn \$13.50 worth of clothing, property, etc., to say nothing of a possible loss of life? Think it over. This extinguisher is a 3-gallon copper cylinder, with opening in top into which is fitted a heavy brass cage holding an 8-ounce round glass bottle containing 4 ounces of sulphuric acid. The extinguisher is partly filled with water in which 1½ pounds of soda are dissolved. Tested by water pressure to 350 pounds per square inch and capable of withstanding four times the pressure possible to generate. To operate turn extra turner upside down and direct the stream to base of fire. Has extinguishing power of 120 gallons of water. Shipping weight, about 23 pounds. Price.....\$13.50



For Pumping Oil, Syrup or Other Liquids Out of Barrels and Forcing Them Into a Tank or Other Receptacle.

For Pumping Water From Cisterns or Shallow Wells to Elevated Tanks. Also Used for Cleaning and Filling Boilers, for Fire Protection and as a Deck Pump.



Double Acting Hand Force Pumps. Fitted with all brass valves, brass plugs also provided for draining water from cylinder to prevent freezing, and for priming when necessary. 1½-inch suction and 1-inch discharge openings both sides, threaded for iron pipe. Cylinder, 4-inch stroke. Shipping weight, about 65 pounds.

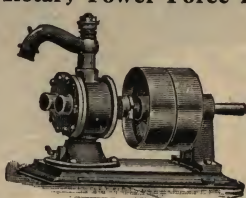
Catalog No.	Diam. Cylinder, Inches	Price, Iron Cylinder	Price, Brass Lined Cylinder
42N5417½	2½	\$11.75	\$13.75
42N5418½	3	12.10	14.30

No pipe included in above prices.

Acme Rotary Power Force Pump.



Will force water a horizontal distance of 200 feet and throw a solid stream 20 feet. An excellent pump for raising a large amount of water with minimum amount of power where lift is not over 15 feet and elevated tank into which water is forced not over 50 feet above pump. Fine protection in case of fire. Driving shaft made long enough to allow use of balance

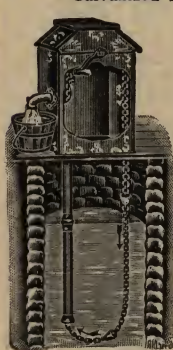


wheel with handle so pump may be worked by hand when desired. Spout threaded for iron pipe at end and also at top where it connects to pump. Can be run at 200 revolutions per minute without injury, although 100 is recommended. If wanted with balance wheel and handle for hand power, allow \$3.60 extra. Prices quoted do not include pipe or belt. For pipe see page 23. Nos. 42N5710¼ and 42N5711¼.

Catalog No.	Gal. per Minute at 100 R. P. M.	Size Suction Pipe, In.	Size Disc Pipe, Inches	Size Pulley, Inches	Shpg. Wt., About, Lbs.	Price
42N5370¼	13	1½	1	10x3	80	\$12.00
42N5371¼	14	1½	1	10x3	86	14.30
42N5372¼	17	1½	1½	10x3	98	16.85
42N5373¼	27	2	1½	12x3½	145	27.80
42N5374¼	36	2	2	12x3½	157	31.50



Hercules Wood Curb Chain Pumps With Galvanized Steel Tubing.



Curb is made of No. 1 select wood, nicely painted. Chain is heavily galvanized. Buckets furnished with this pump are made of good quality rubber with large inside flanges and links of galvanized steel, making it practically impossible for rubber to shift or become loose. We advise the use of this pump for wells no deeper than 20 feet. For wells of greater depth purchase one of our iron pumps. Shipping wt., about 64 pounds.

42N5472¼	Pump for 10-ft. well...	\$4.60
42N5473¼	Pump for 12-ft. well...	4.95
42N5474¼	Pump for 15-ft. well...	5.50
42N5475¼	Pump for 18-ft. well...	6.20
42N5476¼	Pump for 20-ft. well...	6.60

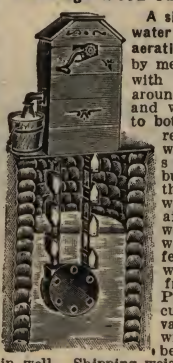
Hercules Galvanized Steel Curb Chain Pumps With Galvanized Steel Tubing.



Same in construction as No. 42N5472¼ except furnished with steel curb. Curb is 24-gauge galvanized sheet steel. Steel pump curb is stronger and lasts longer. All pumps nicely painted. Pumps furnished complete for depth wells specified below, with galvanized chain, rubber buckets, etc. For wells deeper than 20 feet use iron pumps listed on pages 29 and 30. Shipping weight, about 75 pounds.

42N5455¼	For 10-ft. well...	\$6.70
42N5456¼	For 12-ft. well...	7.05
42N5457¼	For 15-ft. well...	7.55
42N5458¼	For 18-ft. well...	8.35
42N5459¼	For 20-ft. well...	8.65

Challenge Wood Curb Purifying Pumps.



A simple method for raising water and at the same time aerating it. Water is raised by means of an endless chain with buckets which pass around bearings in pump and well. Buckets carry air to bottom of well where it is released and works its way to the surface in small bubbles. These bubbles liberate the gases the water may contain while the oxygen in the air helps to purify the water. Order outfit that will reach to within 2 feet of well bottom as water is cooler and fresher at this point. Pumps consist of wood curb nicely painted, galvanized endless chain with buckets and lower bearing all ready to place in well. Shipping weight, about 90 pounds.

No. 42N5442¼	For 10-ft. well...	\$ 7.55
No. 42N5443¼	For 15-ft. well...	9.15
No. 42N5444¼	For 20-ft. well...	10.80
No. 42N5445¼	For 25-ft. well...	12.50
No. 42N5446¼	For 30-ft. well...	14.10

No. 42N5445 Extra Galvanized Buckets and Chain. Shipping weight, per foot, about 12 ounces. Price, per foot.....20c

Challenge Steel Curb Purifying Pumps.

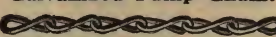


Same in construction as our No. 42N5442¼, shown to the left, except that galvanized steel curb is furnished instead of wood, making a much better pump in every way. Include enough buckets to reach within two feet of the well bottom. Pump comes complete with curb, chain, buckets and lower bearing ready to place in well, as listed below. Shipping weight, about 90 lbs.

No. 42N5446¼	For 10-ft. well...	\$9.90
No. 42N5447¼	For 15-ft. well...	11.55
No. 42N5448¼	For 20-ft. well...	13.15
No. 42N5449¼	For 25-ft. well...	14.75
No. 42N5450¼	For 30-ft. well...	16.40

No. 42N5445 Extra Galvanized Buckets and Chain. Shipping weight, per foot, about 12 ounces. Price, per foot.....20c

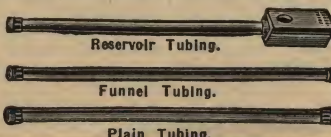
Galvanized Pump Chain.



No. 42N5478 Extra Chain for chain pumps. Shipping weight, per foot, about 5 ounces. Price, per foot.....4½c

Galvanized Steel Tubing.

No. 42N5486¼ Used in connection with No. 42N5455¼ and No. 42N5472¼ Chain Pumps. Furnished in 5, 6, 7 or 8-foot lengths. Reservoir tubing is used in connection with the pump



Reservoir Tubing.

Funnel Tubing.

Plain Tubing.

curb. Funnel tubing goes at bottom of pump, and plain tubing connects reservoir and funnel tubing where the two are not sufficient. Shpg. wt., per ft., about 12 oz. State length and kind wanted. Price, per ft....14c

Chain Pump Buckets.

No. 42N5477

Rubber Buckets for chain pumps. Shipping wt., about 3 oz. Price, each....4c Per dozen....40c



Ram, Boring Outfits, Pump Accessories

Round Steel Pump Rod.

No. 42N5630 For connecting pump cylinders to pump heads. Furnished in any length desired up to 18 feet. Size, $\frac{1}{4}$ inch. Not threaded. Shipping weight, per foot, about 8 ounces. Price, per foot.....4½¢

Threads, extra, per cut, 2 cents.
Pump rod threading stock No. 42N6095 is shown on page 26.

Galvanized Rod Couplings.

For steel pump rods. Shipping wt., about 2 ounces.

No. 42N5620 Size, $\frac{3}{8}$ inch, 14 threads to the inch. Price.....4¢

No. 42N5621 Size, $\frac{1}{2}$ inch, 12 threads to the inch. Price.....5¢

No. 42N5622 Size, $\frac{3}{4}$ inch, 14 threads to the inch. Price.....6¢

Let a Simplex Automatic Ram Pump Water for You. No Power Required.

Catalog No.	Gallons of Water per Minute Necessary to Operate Ram	Size of Supply Pipe	Size of Discharge Pipe	Shpg. Wt., Lbs.	Price
42N5397½	½ to 2	¾ in.	¾ in.	32	\$ 7.20
42N5398½	1½ to 4	1 in.	1 in.	41	8.80
42N5399½	3 to 7	1½ in.	1½ in.	58	11.20
42N5400½	6 to 14	2 in.	2 in.	76	17.60
42N5401½	11 to 25	2½ in.	2½ in.	98	32.00

Will elevate water to a high tank reservoir or will force it a long distance from the source of supply. Set the ram below a spring or body of water at a distance of from 25 to 50 feet. Will lift water 4 to 10 feet for every foot of fall (difference in level) between water and ram. The ram lifts about one-seventh of the water which runs into it; the balance of the water runs out of the ram at the valve in the operation of lifting and is, of course, wasted. Find out how many gallons per minute your spring or stream will supply. Determine by table shown above which ram you will need. Order enough pipe for your purpose, prices of which will be found under No. 42N5710½ and 42N5711½ on page 23. All you have to do is to connect the supply or feed pipe to ram and place one end in the water. Connect the discharge pipe to the other side of ram and run it to the tank into which you wish the water to empty. Ram will not work with less than 2 feet of fall. We furnish full directions for installing. If you wish any further information write and ask for our Hydraulic Ram Circular, mailed free on request.

New Process Plunger Leathers.

No. 42N5657 Made of first quality leather saturated with a special compound which makes it waterproof and very tough. Will give extra long wear. Shpg. wt., about 8 oz. Size are inside diameter of cylinders.
Size, in. 2 2½ 3 3½ 4
Price...13c 15½c 17½c 21½c
Size, in. 3 3½ 4 4½ 5
Price...25c 28c 35c 46c 54c

New Process Lower Valve Leathers.

No. 42N5659 Made of very tough high quality leather. Will give long and satisfactory wear. Shipping weight, 4 ounces.

Diam. cyl. in. 2 2½ 3 3½ 4
Price...6½c 8c 8½c 10c 11c
Diam. cyl. inches. 3 3½ 4 4½ 5
Price...12½c 15c 17½c 18c 20c

State size wanted.
When ordering No. 42N5659 for iron cylinder give inside diameter of cylinder and when for brass body cylinders, specify leather $\frac{1}{4}$ inch less than inside diameter of cylinder.

Wood Farm Pump Leathers.

No. 42N5660 For pump with wooden plungers. Shipping weight, about 4 ounces. For 3½-inch or smaller plungers. Price, 15¢. For 4-inch plunger. Price.....20¢

Spiral Earth Augers.

No. 42N6210½ For Boring wells, prospecting, etc. Made with tool steel auger and tough steel shank. Works inside of pipe. State whether open or closed style is wanted.

For Pipe, In.	Shpg. Wt., Lbs.	Shank Pipe Size, In.	Price, Either Style
2	7 lbs.	1 in.	\$ 4.10
2½	12 lbs.	1½ in.	4.45
3	14 lbs.	1¾ in.	4.75
3½	18 lbs.	1½ in.	5.80
4	35 lbs.	2 in.	6.80
5	52 lbs.	2 in.	13.60
6	68 lbs.	2 in.	17.00

Hydraulic and Jetting Drills.

No. 42N6217 Sand Pump and a Drill combined. Made of solid piece of steel with leather valve. Sizes given are for size pipe drills will pass through. Shipping wt., about 4½ pounds.
Size, inches. 2 2½ 3
Price, each \$1.60 \$2.40 \$3.20

Little Giant Pipe Holder.

No. 42N5612½ Harder the pull, tighter the grip. For 1, 1½ and 1¾-inch pipe. Dog has corrugated chilled surface. Shipping wt., about 35 pounds.
Price.....\$2.40

Malleable Iron Driving Caps.

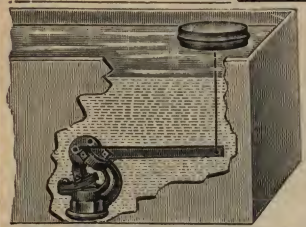
No. 42N5682 Screwed on top of pipe to protect threads when driving it down. Made extra heavy, will not crush threads.
Size, inches..... 1½ 1¾ 2
Shipping wt., about, lbs..... 1½ 2 2½
Price..... 22c 26c 47c

Drive Well Points.

Made of wrought iron pipe, galvanized inside and out after holes are punched. Covered with brass gauze, and gauze covered and protected by a perforated brass jacket. No. 60 gauze is used for coarse sand and No. 100 gauze for fine sand. Flush point is dropped into tubular wells. Drive well point is driven into sand. State which is wanted.
No. 42N5680½ Tubular well point.
No. 42N5681½ Drive well point.
Diam. Shpg. Wt., 60 100
eter, Lgth., About, Gauge, Gauge,
in. in. Lbs. Price Price
1½ 24 5 \$1.40 \$3.10
1¾ 30 6½ 1.80 3.90
1½ 36 7½ 2.17 4.67
1¾ 42 8½ 2.57 5.44
1½ 30 7½ 2.33 4.60
1¾ 36 9 2.80 5.52
1½ 36 14 5.68 7.40
1¾ 48 16 5.25 9.70

BRASS BODY CYLINDERS.

Weights Same as Iron Body.
Diam. 10-In. 16-In.
Inches Long Long
No. 42N5420½ 2 \$4.40 \$4.70 \$5.30
42N5421½ 2½ 4.75 5.00 6.05
42N5422½ 3 5.30 5.60 6.60
42N5423½ 3½ 6.15 6.60 7.90
42N5424½ 4 7.65 8.35 10.30



No. 42N6475 Float Valve to regulate supply of water in watering troughs, tanks, etc. By changing position of lever, valve can be placed on bottom or side of tank. Float not included.
Size, inches..... ¾ 1 1½ 1¾
Shpg. wt., abt., lbs. 3 3 3½ 7
Valve only.....90c 92c \$1.08 \$2.15



No. 42N6478 Copper Tank Float used in connection with above Float Valve for opening and closing it. Size, $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$ inches. Shipping wt., about 2 lbs. Price.....\$1.55

Cast Iron Hydrants.

No. 42N1725½ Anti-freezing, substantially made. Threaded for garden hose. Waste empties water from rising pipe when valve is closed. Opening valve closes waste. Valve can be pulled out at top for repairing, thus avoiding digging it up. Shipping weight, about 44 lbs.
Size, ¾ in. To set in ground 3 ft. \$6.00
Size, 1 in. To set in ground 4 ft. \$6.75
Size, 1 in. To set in ground 3 ft. \$7.90
Size, 1 in. To set in ground 4 ft. \$9.00

No. 42N5665 Hang on pump spout and connect with iron pipe for conducting water to tank or trough. State size wanted. Shipping wt., about 5½ pounds. Price for 1½-inch pipe...40c Price for 1¾-inch pipe...45c

Water Conductors.

No. 42N5665 Hang on pump spout and connect with iron pipe for conducting water to tank or trough. State size wanted. Shipping wt., about 5½ pounds. Price for 1½-inch pipe...40c Price for 1¾-inch pipe...45c



Pipe Hydrants.

No. 42N1720½ Inexpensive, serviceable, frostproof. Attach to underground pipe below freezing point. Made of galvanized iron with cast iron spout threaded for garden hose and brass shut-off valve. Valve waste drains hydrant when turned off and prevents freezing. Shipping wt., about 20 pounds.
¾ In. 1 In. 1½ In.
4 ft. long...\$1.80 \$2.40 \$3.40
5 ft. long...1.85 2.60 3.65
6 ft. long...2.00 2.75 3.75

Pipe Lifting Clevis.

No. 42N5647 Used to prevent pipe from slipping when being taken from well. For 1½ and 1¾-inch pipe. Shipping weight, about 11½ pounds. Price.....90c

Hercules Well Boring Outfit and Post Hole Digger.

Bores wells 25 feet deep, 8, 9, 10, 11, 12, 13 or 14 inches in diameter and digs post holes quickly and with little effort. Requires no special machinery for boring wells; simply place auger on ground where you want well and turn handle. Bore through sand, gravel, sticky clay, mud or hard pan. Will dig under water; works easily and rapidly. When auger is full, draw it out of hole, pull up release catch and it opens as shown in illustration, allowing earth to drop out without shaking or pounding. Auger bores 8-inch hole, but by attaching extension blade diameter may be increased to 9, 10, 11, 12, 13 or 14 inches. This makes the auger suitable for digging holes for foundation piling for barns or other outbuildings. Outfit consists of a new type earth auger, extension rods with malleable couplings for boring down 25 feet, extension blade for increasing diameter of hole and a smooth finish hardwood handle. Shipping weight, about 50 pounds.

No. 42N6213½ Hercules Well Boring Outfit and Post Hole Digger, complete, as described above.....\$8.25
For complete line of post hole diggers see page 1402 of our big General Catalog No. 137. Earth augers are listed on this page.

Iron and Brass Body Pump Cylinders.

Our cylinders are as good as skilled workmen can produce and our prices are as low as first quality, well made goods can be sold for. 10-inch cylinders have 6-inch stroke, 12-inch an 8-inch stroke, and 16-inch a 10-inch stroke. Cylinders 3½ inches in diameter fitted for 1½-inch pipe; 4 inches in diameter, 2-inch pipe; all others fitted for 1½-inch pipe. 10-inch cylinders have one leather on plunger, 12 and 16-inch cylinders have two. Brass body cylinders have a brass cage and valve in the plunger.

IRON BODY CYLINDERS.

No.	Diam. In.	Shpg. Wt., Lbs.	10-In. Long	12-In. Long	16-In. Long
42N5402½	2	2	\$1.50	1.90	\$2.20
42N5403½	2½	11	1.75	2.40	2.80
42N5404½	3	12	2.00	2.80	3.20
42N5405½	3½	15	2.80	3.60	4.50
42N5406½	4	21	3.60	4.60	5.80

PRICES ON LARGER CYLINDERS QUOTED ON APPLICATION.

Malleable Strainers.

No. 42N5646 Used on end of suction pipe to keep out foreign matter. Covered with brass wire cloth. Size Shipping Wt. Price
1 in. About 1 lb. \$2.80
1½ in. About 1½ lbs. \$3.20
1¾ in. About 1¾ lbs. \$3.60
2 in. About 2½ lbs. \$5.00

Tubular Well Cylinders.

Dropped down into pipe of sizes listed below. Easily set in pipe at any desired depth or removed for repairing. Only tool required is seating tool listed below and enough 1-inch pipe to lower tool to point where cylinder is to be placed. Body made of seamless drawn tubing with brass valves. Stroke, 12 inches. Not made smaller than 2 inches.

No. 42N5462½ Size, 2 inches. Shipping weight, about 7 pounds. Price.....\$4.60

No. 42N5463½ Size, 2½ inches. Shipping weight, about 9 pounds. Price.....\$8.40

No. 42N5464½ Size, 3 inches. Shipping weight, about 12 pounds. Price.....\$11.50

Seating Tools.

No. 42N5465 Seating tools for placing the above cylinders in well, or for drawing them out of pipe.
For 2-in. cylinder. Price.45c
For 2½-in. cylinder. Price.60c
For 3-in. cylinder. Price.80c

Sand Pumps.

No. 42N6220½ Above pumps take sand and dirt from bored and drilled wells.
Size, 3 in. Shpg. wt. about 6 lbs. Price \$2.90
Size, 4 in. Shpg. wt. abt. 10 lbs. Price \$4.00
Prices on 5, 6, 7 and 8-inch quoted on application.

Spray For

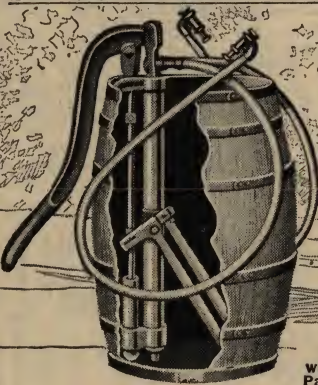
Supplies Two Nozzles at a Constant Pressure of 125 Pounds

Hercules Power Sprayer—A High Quality Power Sprayer. Sprays Whitewash and Cold Water Paint as Well as Chemical Solutions for Killing Insects and Plant Diseases. Hose with strainer, 5 feet of overflow hose to lead from relief valve back to tank, and 10 feet of 2½-inch rubber belting. For extra lead of hose and other accessories see bottom of opposite page.

Shipping—Engine shipped from factory in INDIANA. Shipping weight, about 280 lbs. Pump and accessories are carried in stock at our CHICAGO store. Shpg. wt., 175 lbs.
No. 42N5563½ Hercules Power Sprayer, complete as described above, without engine. Price.....\$37.30
No. 42N5564½ Hercules Power Sprayer, complete as described above, with a 1½ horse-power Economy engine, equipped with magnet, Price.....\$83.30
 Above prices do not include barrel or tank.

Pump especially suitable for mounting upon wagon or truck. Brass body cylinder and large cast iron air chamber mounted upon cast base which also supports drive gears. Cylinder of seamless brass tubing with brass ball intake and discharge valves; diameter, 2¼ inches, 4½-inch stroke. Pump has 10-inch drive pulley. Back geared 4 to 1. Our Economy Engine with magnet, capacity 1½ horse-power, is fully described on page 1504 of our big General Catalog No. 137.

Agitator (not shown in illustration) for keeping solution thoroughly mixed is made to fit ordinary 50-gallon hardwood barrel or tank or reservoir of same height. Accessories consist of pressure gauge, relief or overflow valve, one 20-foot length of ½-inch spray hose with 3 feet of spray pipe, shut off cock and nozzle, 6 feet of suction



For Spraying, White-washing and Cold Water Painting.

Perfection Barrel Sprayer.

All parts of pump, excepting handle, are inside barrel or tank. Nothing to catch in low hanging branches. As suction cylinder is submerged it requires no priming. Pump consists of large tube, into which solution is compressed before delivered to nozzle. This produces an even, steady flow. Pressure of 100 or 125 pounds can be obtained, breaking up even heavier solutions into fine, mistlike spray. Brass suction cylinder, valves and valve seats. The prepared canvas packing not affected by strong solutions and will last a long time. Paddle agitator, consisting of two paddles, keeps solution thoroughly stirred up. Can be attached to any ordinary watertight barrel. Prices quoted do not include hose, shut offs, nozzles or barrel. These, except barrel, listed at right. Shipping weight, about 60 pounds.

No. 42N5565½ Perfection Barrel Sprayer, with paddle agitator. Fitted for one lead of hose. No hose included. \$3.20

No. 42N5566½ Perfection Barrel Sprayer. Fitted for two leads of hose. No hose included. Price.....\$8.75

For Barrel Sprayers.

One-Half Inch Five-Ply Spray Hose With Misty Nozzle and Shut Off Cock.

No. 42N5514 5 feet long. Shipping weight, about 3 pounds. Price.....\$1.35

No. 42N5515 10 feet long. Shipping weight, about 6 pounds. Price.....\$2.45

No. 42N5517 25 feet long. Shipping weight, about 13 pounds. Price.....\$4.25

For Spraying Tall Trees.

No. 42N5516 Galvanized Extension Tube, 8 feet long. Shipping wt., about 7 lbs. Price.....55c

For Spraying Whitewash or Cold Water Paint.

No. 42N5534 Hercules Whitewash Nozzle. Fits hose or ¼-inch pipe thread. Shipping weight, about 8 ounces. Price.....60c

For Spraying, White-washing, Cold Water Painting, Washing Windows and Buggies and Sprinkling Lawns and Gardens.

Hercules Barrel Sprayer.

Easy to operate, simple in construction. Has a large air chamber which produces an even, steady spray from one or two nozzles. Body of pump is of cast iron, with large cast iron air chamber, brass cylinder, brass ball check valves and brass strainer. Agitator moves up and down around suction strainer, keeping it free from sediment while sprayer is in use, also keeping the solution thoroughly mixed. Can be attached to a barrel by simply cutting a hole in the top and fastening pump in place with four screws or bolts. Prices below do not include hose, nozzles, shut offs or barrel. These, except barrel, are listed on page 1483. Shipping weight, 60 pounds.

No. 42N5507½ Hercules Barrel Sprayer. Fitted for one lead of hose. No hose included. Price.....\$9.00

No. 42N5508½ Hercules Barrel Sprayer. Fitted for two leads of hose. No hose included. Price.....\$9.55



For Spraying, White-washing, Cold Water Painting and for Carting Liquids, Etc.

Will spray better, quicker and easier than a small hand sprayer.

Combination Sprayer and Wheelbarrow.

With this sprayer you can also whitewash or cold water paint chicken house, hog pen, cattle barns and horse stables in less time than it takes with a brush for hen house alone. Pump can be removed and tank and barrow used for carting feed, grain, slops, etc. Tank made of galvanized iron and holds 10 gallons. Pump will produce a pressure of 100 pounds, sufficient to break up solution into a fine mist or fog. Disc agitator works over strainer, keeping solution thoroughly mixed and preventing strainer from becoming clogged. Shipping weight, about 60 pounds.

No. 42N5525½ Hercules Barrow Sprayer, complete, as shown, with 8 feet of spray hose, shut off cock and nozzle. Price.....\$13.15

Whitewashes, Paints and Sprays.

Our Handy Improved Sprayer produces high pressure. Reservoir of heavy galvanized iron holds 7½ gallons. Pump entirely of brass, except handle. Agitator keeps solution thoroughly mixed. Pump fitted with 8 feet of three-ply hose, stop cock and three 2-foot 6-inch lengths of extension pipe, with latest pattern Vermorel nozzle. Five extra inserts furnished with each nozzle. Sprayer, filled, is easily carried. Shipping weight, about 44 pounds.

No. 42N5503½ Handy Improved Sprayer. Price.....\$9.55

No. 42N5500½ Same as above, except that reservoir and cover are made of high grade brass. Price.....\$14.60

HERCULES WHITEWASH NOZZLE.

No. 42N5534 Designed especially for whitewashing and cold water painting. Made of cast brass with chilled steel disc. Shipping weight, about 8 ounces. Price.....60c



Convenient Size for Hanging Over Your Shoulder and Spraying the Garden, Shrubs, Bushes and Small Trees.

Sprayrite Portable Sprayer.

Galvanized iron tank holds 2 gallons. Brass pump. Handle locks for carrying. Safety valve, 2 feet of hose and brass nozzle for fine mist or coarse spray. Shipping wt., about 12 pounds.

No. 42N5570½ Sprayrite Compressed Air Sprayer.....\$4.35

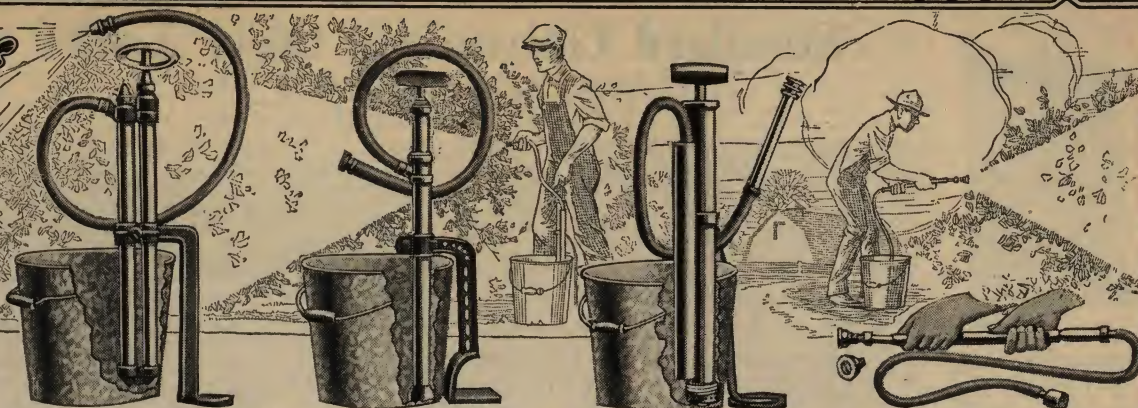
When Not Used for Spraying, Keep This In Your House or Barn as a Fire Extinguisher.

Marvel Spray Pump and Fire Extinguisher.

Pump and all valves and fittings that come in contact with solution are brass. Two nozzles furnished, one for fire or washing windows, etc.; other for spraying. Fire nozzle throws stream 25 to 30 feet. Capacity, 6½ gallons. Shipping wt., about 17 lbs.

No. 42N5519½ Marvel Pump and Fire Extinguisher with galvanized steel tank, 2-foot extension pipe and 3 feet of hose. Price.....\$5.15
No. 42N5522½ Same as above, except with copper tank. Price.....\$7.85

Better Crops



For Spraying Vegetables, Bushes and Small Trees. For Washing Windows, Buggies, Etc.

Brass Body Bucket Sprayer. Has brass body and brass ball valves. Pressure on handle is entirely on down stroke, making it easy to operate. Spray nozzle can be detached and a solid stream nozzle attached for sprinkling. Shipping weight, about 9 pounds.

No. 42N5521 Handy Bucket Sprayer with foot rest. Price.....\$3.30

No. 42N5520 Handy Bucket Sprayer without foot rest, but with bucket clamp, otherwise same as above. Price.....\$3.25

Bucket not included in above prices.

For Spraying and Whitewashing.

Bucket Whitewash Sprayer. Discharges solution from nozzle in a steady, even spray. Made of brass, except handle and foot rest. These are iron. Furnished with 3 feet of hose and two nozzles, one for spraying, the other a straight stream nozzle. Shipping weight, 8 lbs.

No. 42N5552 Bucket Whitewash Sprayer. Price.....\$3.00

Bucket not included in above price.

Gives Excellent Results for Spraying or Whitewashing.

Made of galvanized iron, with brass screw cap at top and bottom of cylinder for cleaning. Ball check valves in the intake and discharge chambers. Includes 3 feet of hose, 1-foot brass extension pipe and nozzle for both a coarse and fine spray. Shpg. wt., abt. 3½ lbs.

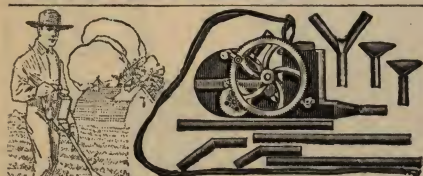
No. 42N5553 Whitewash Bucket Sprayer. Price.....\$2.00

Bucket not included in above price.

For Spraying, Whitewashing, and Applying Disinfectants.

Perfection Rod Sprayer. Pump is double acting, forcing solution from nozzle in a continuous spray under high pressure. Sprayer made of brass with two wood handles and rubber suction hose, with piece of pipe and strainer on end. Shipping weight, about 4 pounds.

No. 42N5541 Perfection Rod Sprayer. Price.....\$3.85



For Dusting Plants With Paris Green, Arsenate of Lead and Other Chemicals in Powder Form.

Fan driven by gears, not a belt. This duster will cover two rows at a time as fast as operator can walk and is adjustable for rows of different widths, and for dusting small trees and bushes. Furnished with three tubes, two nozzles, one Y connection, two elbows and carrying strap with snaps. Complete instructions included. Shipping weight, about 10 pounds.

No. 42N5506½ Gem Crank Duster. Price.....\$9.25

For Spraying Vegetables and Bushes.



Little Wonder Sprayer. Adjustable for fine mist or coarse spray. Furnished with brass ball valve. Will spray up or down in any position. Capacity, 1 quart. Shipping weight, about 3 pounds.

No. 42N5523 With Tin Pump and Reservoir. Price.....\$6.00

No. 42N5524 With Tin Pump and Galvanized Iron Reservoir. Price.....\$6.30

No. 42N5530 Little Wonder Sprayer, with tin pump and 2-quart galvanized iron reservoir. Shipping weight, about 4½ pounds. Price.....\$7.50

Has Detachable Glass Reservoir.



Glass Reservoir Sprayer. Plunger has spring expander, keeping leather washer expanded at all times. Capacity, 1 quart. Shipping weight, about 3½ pounds.

No. 42N5529 Glass Reservoir Sprayer. Price.....\$4.40

Medium and High Pressure Spray Hose.

For sprayers with ½ or ¾-inch standard hose connection.

No. 42N5504½ Perfection ½-inch, 5-Ply Spray Hose for 150 pounds pressure. Comes in lengths specified below with coupling connection at each end. Shipping weight, per foot, about 8 ounces.

Length, 5 feet...\$0.66 Length, 25 feet...\$2.00

Length, 10 feet...1.04 Length, 50 feet...3.75

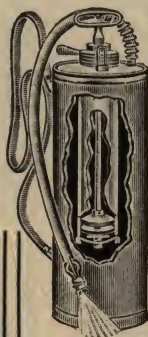
No. 42N5505½ Hercules ½-inch 2-Ply Spray Hose for 300 pounds pressure, special seamless braided, high quality and expert manufacture. Comes in lengths specified below with a coupling connection at each end. Shipping weight, per foot, about 8 oz.

Length, 10 feet...\$1.60 Length, 25 feet...\$4.00

Length, 15 feet...2.40 Length, 50 feet...8.00

No. 42N5531 Misty Straight Nozzle. Has standard nozzle for hand and power sprayers. Has fine and coarse spray discs. Shpg. wt., 8 oz. Price.....55c

No. 42N5533 No. 42N5532 Misty Nozzle. Produces a fan shaped spray. For spraying, whitewashing and cold water painting, brass throughout, with regulating screws. Shipping wt., about 7 ounces. Price.....53c



For Spraying Trees, Plants, Animals, Stable and Chicken Houses; Also Used for Washing Windows and Buggies.

Compressed Air Automatic Sprayer. Sprays more than two gallons of solution under a pressure of from 40 to 75 pounds. Solution is put in reservoir, and then air is pumped into it with the air compressor in center of tank. Reservoir has total capacity of 3 gallons. Pump cylinder is of brass tubing with rubber valve, brass valve spring, leather plunger and steel rod. Sprayer fitted with heavy web shoulder strap, 2-foot length of spray hose. By attaching extension pipes, listed below, tall trees and high windows can be reached. Spray calendar sent with each sprayer. Shipping weight, about 16 pounds.

Automatic Cock.
No. 42N5555½ Galvanized Sprayer with automatic cock. Price.....\$5.00

No. 42N5556½ Brass Sprayer with automatic cock. Price.....\$8.05

No. 42N5558 Brass Extension Pipes. Length, about 2 feet. Shipping weight, about 8 ounces. Price, each.....55c

NOTICE—This sprayer cannot be used for whitewashing.

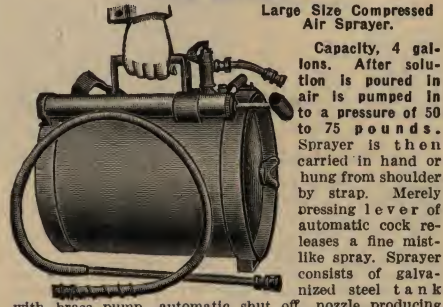
Common Cock.
No. 42N5501½ Galvanized Sprayer with common cock. Price.....\$4.50

No. 42N5502½ Brass Sprayer with common cock. Price.....\$7.35

No. 42N5558 Brass Extension Pipes. Length, about 2 feet. Shipping weight, about 8 ounces. Price, each.....55c

NOTICE—This sprayer cannot be used for whitewashing.

Sprays Plants, Trees, Bushes, Gardens and Lawns.



Large Size Compressed Air Sprayer.

Capacity, 4 gallons. After solution is poured in air is pumped in to a pressure of 50 to 75 pounds. Sprayer is then carried in hand or hung from shoulder by strap. Merely pressing lever of automatic cock releases a fine mist-like spray. Sprayer consists of galvanized steel tank with brass pump, automatic shut off, nozzle producing coarse or fine mistlike spray, 3 feet of spray hose with 1-foot brass extension pipe. Shipping weight, about 20 pounds.

No. 42N5554 Compressed Air Sprayer, complete. Price.....\$5.95

Sprays Any Chemical in Liquid Form.



Ideal Sprayer. Made with tin or brass reservoir, simple and efficient. Capacity, about 1 quart. Shipping weight, about 3 pounds.

No. 42N5527 With tin pump and reservoir. Price.....\$3.00

No. 42N5528 With tin pump and brass reservoir. Price.....\$9.90

No. 42N5557 Dry Powder Duster. Price.....70c

Will Dust Paris Green, Hellebore, Dry Arsenate of Lead and Other Insect Killing Chemicals.



Dry Powder Duster. Made of tin, nicely painted. Adjustable elbow allows powder to be dusted up, down or sideways. Reservoir holds over a quart. Shipping weight, about 3 lbs.

No. 42N5557 Dry Powder Duster. Price.....70c

For Spraying Tall Trees.



Bamboo Extension Pipe. Light, but substantial, and sufficiently thick to give user a firm grip. All metal parts are brass, preventing the formation of scale to clog nozzle. Made 9 feet long only. Shipping weight, about 5 pounds.

No. 42N5545½ Bamboo Extension Pipe. 9-foot length with shut off cock. Price.....\$2.80

No. 42N5539 Cast Brass U ¼-inch pipe thread. Shipping weight, about 5 ounces. Price.....36c

No. 42N5549 Brass Elbow. For spraying from beneath. Shipping weight, 8 ounces. Price.....36c

No. 42N5550 Cast Brass Ground Key Shut Off. Threaded. Male and female for ¼-inch pipe. Shipping weight, about 12 ounces. Price.....46c



Simple, Easy to Operate, Light and Convenient.

Made of bright tin coated with Egyptian lacquer. Four nozzles included, as illustrated. Shipping weight, about 4 lbs.

No. 42N5518½ Bucket Spray Pump. Price, ea. \$0.95 Per doz. 11.25

Bucket not included in above prices.

No. 42N5534 Hercules White Wash Nozzle, brass with chilled steel disc. Shipping wt., about 8 ounces. Price.....60c

No. 42N5536 One-Point Vermorel Nozzle. Shipping weight, about 4 ounces. Price.....60c

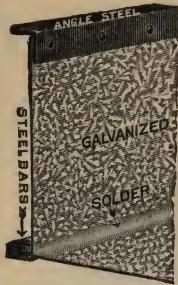
No. 42N5537 Two-Point Vermorel Nozzle. Shipping weight, about 8 oz. Price.....\$1.20

No. 42N5538 Four-Point Vermorel Nozzle. Shipping weight, about 1 lb. Price.....\$2.40



No. 42N5546 Brass Strainer, for straining solutions into sprayer. Size, about 3½ inches. Shpg. wt., 8 oz. Price.....77c

Standard Galvanized Steel Tanks



We guarantee our STEEL TANKS to be equal to any produced and our prices to effect a saving for you, quality considered. Order a tank from us with the understanding that it must be exactly as we represent it or you can return it at our expense and we will return your money and freight charges. Prompt shipment of all sizes.

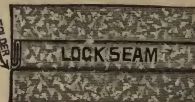
We use nothing lighter than United States Standard No. 20-gauge galvanized sheet steel. The weights shown for our tanks are the actual average shipping weights. We do not list our tanks at estimated weights which are often much in excess of actual weights. Remember this when making comparisons. Workmanship on our tanks is absolutely first class. All seams in No. 20-gauge tanks are lock seams and are carefully soldered, no edges coming in contact with the water. Tanks made of No. 18 and No. 16-gauge steel have riveted and soldered seams. Tops are bound with angle steel. Bottoms of all tanks over 1 foot in height are secured between two pieces of flat steel or

are bound with angle steel, depending upon size and shape of the tank. See illustrations. Sides are firmly braced (when size and shape require it) with angle steel bars. Round end, square end and oval tanks 6 feet or longer have angle steel bars across the top, the number of bars depending on the size of tank. Measurements in all cases are outside, over all.

Certain Standard tanks which are regularly shipped set up can and will be shipped knocked down if so ordered, and when such tanks weigh much over 200 pounds and are to be shipped over 500 miles, or when sizes of such tanks which weigh 125 pounds or more are to be shipped over 1,000 miles, we advise that you order them shipped knocked down, because you will then save in freight charges more than it should cost you to put the tanks together.

When tanks are shipped knocked down, all holes are punched, every part is fitted together at the factory and sufficient solder and rivets are sent with which to put the tank together. Capacities shown in barrels are based on 31½ gallons to the barrel.

We will not cut pipe connection holes in steel tanks. You can easily cut holes exactly where you want them, by using a cold chisel and cutting against a block of hardwood. Order pipe connections if you wish to connect pipe to tank.



Round Storage Tanks.

Sizes Nos. A23, A8, A24 and A25 are made of No. 18-gauge galvanized steel, but can be made of No. 13-gauge at prices one-fifth higher, or of No. 16-gauge at prices two-fifths higher. Size No. A12 is made of No. 18-gauge steel, but can be made of No. 16-gauge at a price one-sixth higher. Sizes Nos. A18 and A28 are made of No. 16-gauge steel, because lighter gauge is not strong enough for such large tanks. When studying prices, don't forget to note the gauge of steel of which the tanks are made. These tanks are always shipped knocked down because they are too large to go into the door of a freight car. They do not have lock seams but are punched for rivets. Prices include sufficient solder and rivets. Shipped knocked down from factory in SOUTHWESTERN MICHIGAN.



No.	Size	Gauge	Diam.	Ht.	Cap.	Wt.	Price
No.	No.	No.	Feet	Feet	Bbils.	Lbs.	
32N4388	A23	20	6	6	39½	265	\$ 36.74
32N4389	A 8	20	6	8	53½	330	45.12
32N4392	A24	20	8	5	60	330	49.36
32N4393	A25	20	8	6	71½	375	55.09
32N4394	A12	18	8	8	95	590	81.36
32N4395	A18	16	8	10	119	910	107.38
32N4398	A26½	16	10	8	150	985	124.52

Pipe Connections for Steel Tanks.

We do not cut pipe connection holes in steel tanks, because it is a difficult matter for anyone to tell until he receives his tank just where it is best to cut the hole. You can easily cut the hole by using a cold chisel and cutting against a block of hardwood. Our galvanized pipe connections consist of one close nipple, two leather washers, two lock nuts, and one pipe cap, to close the pipe hole when you wish. Shipped from CHICAGO or from factory.

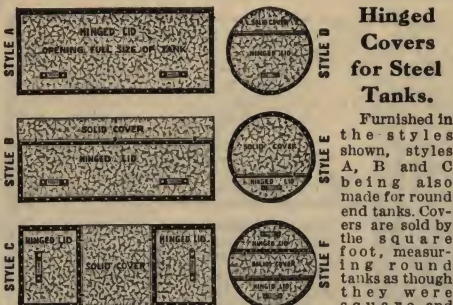
No. 32N4300	Pipe Connection.	1 in.	1½ in.	1¼ in.	2 in.
Size.....	1 lb.	1 lb.	1 lb.	2 lbs.	3 lbs.
Price.....	35c	45c	55c	68c	90c

Square End Tanks.

Made of No. 20-gauge galvanized steel. Will make of No. 18-gauge at prices one-fifth higher. Always shipped set up unless otherwise ordered. (See general description at top of page.) Shipped from factory in SOUTHWESTERN MICHIGAN.



No.	Size	L'gth.	W'dth.	Ht.	Cap.	Wt.	Price
No.	No.	Feet	Feet	Feet	Bbils.	Lbs.	
32N4368	46	4	2	2	4	75	\$ 8.49
32N4369	47	6	3	2	6	100	10.99
32N4370	48	8	3	2	7½	130	15.46
32N4372	30	8	2½	2	7½	145	15.46
32N4374	32	8	3	2	12	155	18.69
32N4379	37	10	3	2	14	195	21.91



Hinged Covers for Steel Tanks.

Furnished in the styles shown, styles A, B and C being also made for round end tanks. Covers are sold by the square foot, measuring in. Round tanks as though they were square and round end tanks as though they were square at the ends. Made of No. 20-gauge steel. Weight, about 2 pounds per square foot. State style wanted. Shipped from tank factory in SOUTHWESTERN MICHIGAN.

No. 32N4306	Steel Cover.	Price, per square foot.....
		26c

Round Tanks.

Made of No. 20-gauge galvanized steel. Will make of No. 18-gauge at prices one-fifth higher. Always shipped set up unless otherwise ordered. (See general description at top of page.) Shipped from factory in SOUTHWESTERN MICHIGAN.



No.	Size	Diam.	Ht.	Capacity.	Wt.	Price
No.	No.	Feet	Feet	Barrels	Lbs.	
32N4310	1	2	4	2½	7	90
32N4311	2	3	4	3	9	100
32N4312	3	4	4	4	12	125
32N4313	4	5	5	5	12	110
32N4314	5	6	6	6	12	120
32N4315	6	8	8	8	12	135
32N4316	8	8	5	4	19	160
32N4318	8½	5	5	5	24	185
32N4320	9	6	2	14	140	16.32
32N4321	10	6	2½	17	155	18.37
32N4322	11	6	3	20	170	21.00
32N4323	12	6	4	27	200	26.23
32N4324	13	6	5	34	235	31.50

Round End Tanks.

Made of No. 20-gauge galvanized steel. Will make of No. 18-gauge at prices one-fifth higher. Always shipped set up unless otherwise ordered. (See general description at top of page.) In figuring the capacity no allowance has been made for the round corners, therefore these tanks will not hold quite as much as the table shows. Shipped from factory in SOUTHWESTERN MICHIGAN.

No.	Size	L'gth.	W'dth.	H'gth.	Capacity.	Wt.	Price
No.	No.	Feet	Feet	Feet	Bbils.	Lbs.	
32N4334	C12	4	2	2	3½	61	\$ 7.36
32N4336	B13	6	2	2	5½	90	10.79
32N4337	13	8	2	2	7½	120	12.36
32N4338	14	8	2	2½	9½	140	14.68
32N4339	15	8	2½	2	9½	135	13.62
32N4340	16	8	2½	2½	12	145	15.74
32N4341	17	8	3	2	12	140	14.68
32N4342	18	8	3	2½	14	155	16.80
32N4343	20	10	3	2	16	170	18.36
32N4348	23	10	3	2½	18	195	21.05

Kenwood Ball Bearing Windmills



BACK GEARED STEEL WINDMILL.

WE SEND COMPLETE INSTRUCTIONS FOR ERECTING WINDMILLS AND FOR BUILDING WOOD TOWERS.

They are self governing. The adjustable weight and lever governor as used in the Kenwood is the most reliable form of windmill governor. It will hold the windmill into any wind in which it is safe to run. Should the wind become too high, the windmill will swing quietly out of the wind. When the wind abates, the windmill will swing back into the wind and resume pumping.

Workmanship and materials are first class. Shaft bearings are of large proportions and lined with hard engine babbitt. Gears are smooth and true. Large oil reservoirs provide ample lubrication.

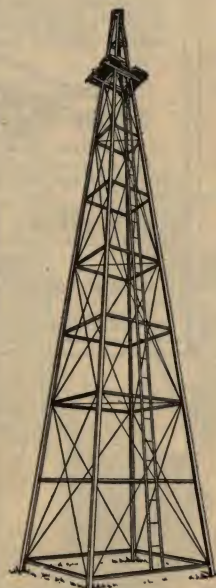
The steel wheels are made of heavy gauge steel and galvanized after all the parts are made. Each wheel section is thus practically soldered into one solid piece by the galvanizing. This is a most important feature, as it means thorough protection against rust. There are no raw edges, or bolt holes exposed to rust. All bolts on wheel and rudder are galvanized and have double nuts. Steel wheels and rudders are nicely striped with red paint.

Prices include pump pole, pull-out wire, reefing gear, bedplate and truing spider with which the mill is attached to tower, but price does not include tower or platform. When windmill is ordered without tower we will ship it with bedplate and truing spider for a four-post wood tower, and with sufficient pump pole and pull-out wire for a tower 40 feet high, unless otherwise ordered. Kenwood Windmills are shipped from factory in NORTHEASTERN INDIANA.

Prices of Back Geared Steel Windmills.

No. 32N4006	6-Foot Back Geared Steel Pumping Windmill.	Weight, 305 pounds. Price.....	\$27.50
No. 32N4008	8-Foot Back Geared Steel Pumping Windmill.	Weight, 425 pounds. Price.....	37.95
No. 32N4010	10-Foot Back Geared Steel Pumping Windmill.	Weight, 630 pounds. Price.....	56.80
No. 32N4012	12-Foot Back Geared Steel Pumping Windmill.	Weight, 970 pounds. Price.....	89.25

Kenwood Four-Post Windmill Towers



Our Steel Towers are very strong and substantial and are properly proportioned and braced in every way. Every corner post, brace, band girth, bolt and nut is heavily galvanized after all cutting, punching and other machine work is done. This insures every part of the steel being covered with non-rusting metal and gives complete protection against rust. Our towers are braced diagonally as well as crosswise at every corner post joint and they are so strong and rigid that when properly anchored they will withstand all the most severe storms. No. 1 towers have one set of bands for each 10 feet of their height, also a band at the platform and two bands above the platform which serve as steps. No. 1 towers are intended for use with 6 and 8-foot windmills, but in view of the small difference in price we recommend that a No. 2 tower be used with an 8-foot windmill. Nos. 2 and 3 towers have bands 5 feet apart for the entire height of the tower, also a band at the platform and two extra bands above the platform which serve as steps. No. 2 towers are suitable for 8-foot and 10-foot windmills, but we recommend that you use a No. 3 tower for 10-foot windmills when elevated more than 40 feet. No. 3 towers are suitable for 10-foot or 12-foot windmills at any height. Our towers are full height; every corner post is 10 feet 6 inches long, the extra 6 inches being allowed for the lap of one post over the one below it. This feature makes a stronger and better finished tower and also serves to prevent water from running into the corner post joints. Illustration shows a 40-foot No. 2 or No. 3 tower. Prices are for towers complete with platforms, ladder, rod guides, anchor posts and anchor plates and building instructions for erecting, but do not include windmill, bedplate, truing spider, pump pole, pull-out wire nor reefing gear, these being parts of the windmill. Shipped from factory in NORTHEASTERN INDIANA.

No. 32N4112	20-Foot No. 1 Tower.	Weight, 345 pounds.....	\$29.95
No. 32N4113	30-Foot No. 1 Tower.	Weight, 485 pounds.....	39.90
No. 32N4114	40-Foot No. 1 Tower.	Weight, 635 pounds.....	52.10
No. 32N4122	20-Foot No. 2 Tower.	Weight, 355 pounds.....	31.50
No. 32N4123	30-Foot No. 2 Tower.	Weight, 520 pounds.....	44.75
No. 32N4124	40-Foot No. 2 Tower.	Weight, 700 pounds.....	57.80
No. 32N4125	50-Foot No. 2 Tower.	Weight, 975 pounds.....	80.35
No. 32N4126	60-Foot No. 2 Tower.	Weight, 1,275 pounds.....	103.60
No. 32N4132	20-Foot No. 3 Tower.	Weight, 405 pounds.....	33.75
No. 32N4133	30-Foot No. 3 Tower.	Weight, 580 pounds.....	47.90
No. 32N4134	40-Foot No. 3 Tower.	Weight, 785 pounds.....	69.25
No. 32N4135	50-Foot No. 3 Tower.	Weight, 1,085 pounds.....	86.65
No. 32N4136	60-Foot No. 3 Tower.	Weight, 1,410 pounds.....	110.50

TILE FOR PORCHES, KITCHENS AND BATHROOMS

A Fully Tiled Bathroom Is a Thing of Beauty, but More Important Than Its Beauty Are Its Perfect Sanitary Qualities



A Tiled Floor and Wall Gives a Room a Neat, Clean, Spick and Span Appearance Not Equaled by Any Other Material

How refreshing is the appearance of a cool, shady tiled porch floor on a warm Summer day!

The use of tile for the floors and walls of a bathroom or kitchen should be favorably considered by everyone who is building a home or who expects to make alterations in his present home. There are few things which add so much to the real usefulness as well as to the appearance of a bathroom or kitchen as a tile floor and walls.

The more prospective house builders look into this question of tile for the home the more they are going to use tile. Tile is absolutely impervious to moisture. No such satisfactory surface material can be secured in any other way. Before you build send us the plans for your bathroom, kitchen and vestibule, and let us furnish you an estimate of the cost of tile for floors and wainscoting.

With our complete instructions you can lay the tile yourself and do as good a job as any high priced tilewright.

House Owners, Builders, Contractors and Architects: Send us a rough sketch with accurate measurements, or your blue prints, and let us estimate on tiling for the bathroom, the kitchen or any room where pure white sanitary wall treatment appeals to you.



The Old Way.



The New Way.

Dr. G. B. Young, Former Health Commissioner, Chicago, said, in the Chicago Daily Tribune:

"If there is one room in the home which should be well furnished, that room is the bathroom. If you have any money to spend, do not put it into expensive furniture for the parlor; spend it in bathroom construction and furnishing.

"Tile floors and wainscoting are non-absorbent, easily kept clean, and in them vermin can find no abiding place. The attractive, well furnished bathroom is a good habit former for the children.

"The poorer classes of the cities are not unclean by nature, but because during their childhood they did not enjoy the facilities of a good bathroom which gave them a chance to keep clean."

PLAIN WHITE WALL TILE.

Plain wall tile in standard size, 6x2 and 6x3 inches, for only 38 cents per square foot. If you will send us a drawing of your bathroom or kitchen or any room in which you want tile wainscoting, showing the location of all doors, windows and offsets, give the dimensions and tell us how high up on the walls you want the tile to come we will be glad to give you a complete estimate of the cost of the tile, including the cap and base. If you want plain wall tile without cap and base you can order as many square feet as you need right from this page.

No. 63N41150 White Enameled Wall Tile. Price, per square foot.....38c
Wall tile weighs about 5 pounds per square foot, packed. Delivered on the cars at the factory in OHIO.

PURE WHITE FLOOR TILE.

Design No. 63N41000.

Floor tile weighs about 3 pounds per square foot, packed. Delivered on the cars at the tile works in OHIO.

1-Inch White Hexagons, mounted on paper. Price, per square foot.....20½c

1¼-Inch White Hexagons, mounted on paper. Price, per square foot.....25c

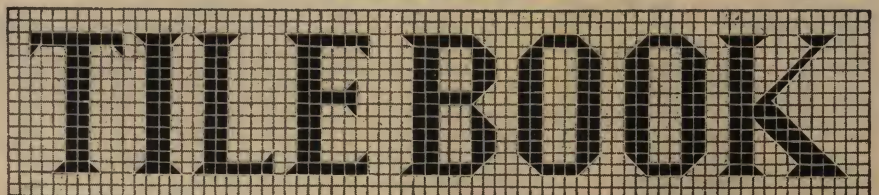
We can also furnish plain white ¾-inch squares or plain white 1⅜-inch rounds, mounted on paper, for 20½ cents per square foot.

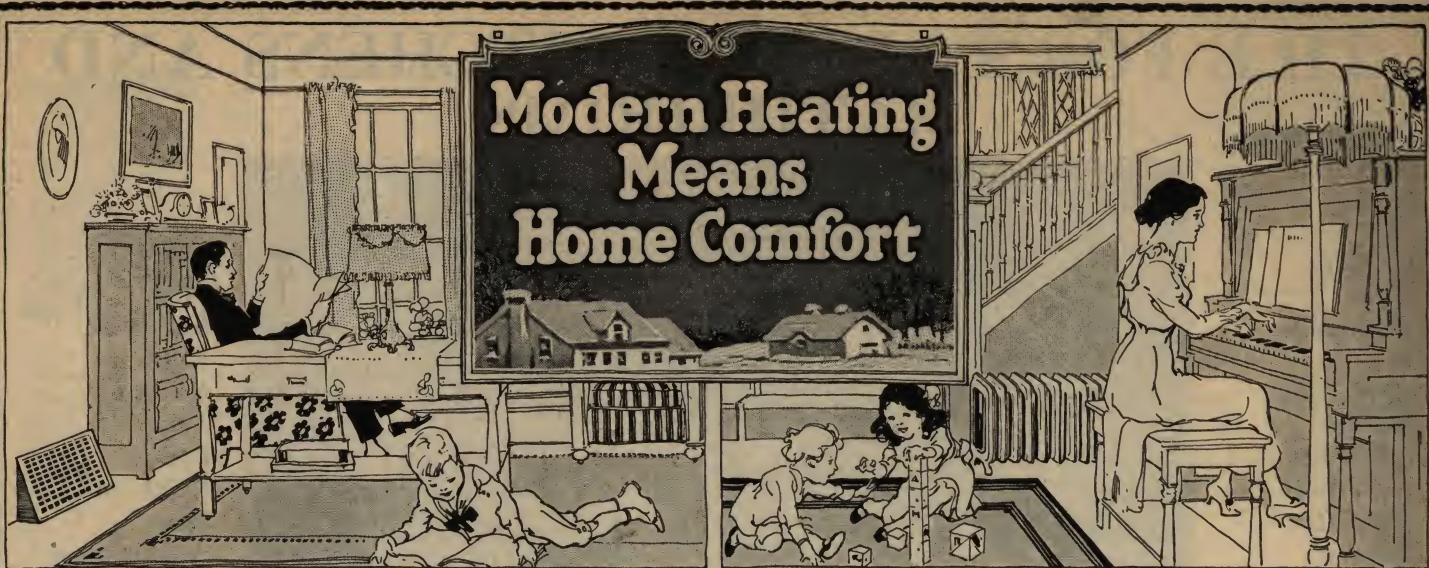
For instructions how to lay wall and floor tile see our Special Tile Book, which will be mailed postpaid for the asking.



We publish a complete separate Catalog of Floor and Wall Tile for all purposes. In it we show a great many beautiful patterns and designs in fifteen different colors. If interested, write and ask for our Catalog of Floor and Wall Tile. We will mail it to you postpaid on request.

WRITE FOR OUR





Why Not Be Comfortable?

Is your home like either of those shown above in their comfortable warmth? Is there actual SUMMER in every room in your house throughout the long Winter months? Are the floors nice and warm for the children to play on? Is your bathroom warm and comfortable? Are there no cold corners, especially near windows? Can you sit comfortably for any length of time in every room in the house? It does not cost a fortune to have all this. You can have it with either a Hercules Hot Water, Steam or Warm Air Heating System. The price is within your means.

You Are Buying Service

Has it ever occurred to you that what you really buy in a heating plant (as in most other things) is SERVICE? You are interested in the material from which the plant is made, and the design, only in so far as these affect the service the plant will give. Our Hercules Heating Plants include a large enough boiler or furnace and the proper size radiators or registers—in other words, sufficient heating capacity to comfortably warm every nook and corner of your home during the coldest weather. These plants will give you this service, not for one season alone, but for a lifetime. This is guaranteed to you by a plain, straightforward guarantee. This guarantee includes an offer to take back the entire plant any time within two years if unsatisfactory for any reason whatever. In other words, a Hercules is a reliable, guaranteed system that will furnish plenty of heat in your home for years to come.

Five Big Advantages

You may not have thought of the five big advantages of a Hercules Hot Water or Steam Heating Plant. They are:

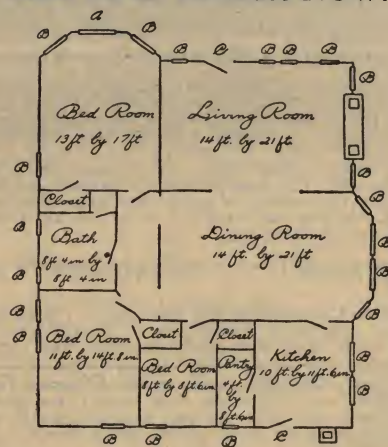
- (1) **Comfort**—Because every nook and corner of your home is heated to the same even degree of warmth.
- (2) **Healthfulness**—Because there are no cold drafts traveling across the floors. All the air in the house is heated to the same comfortable temperature.
- (3) **Cleanliness**—No dust, soot or ashes in the living rooms—how different from the ordinary method of heating.
- (4) **Economy**—Least cost for fuel—water, steam and warm air are the best means known for carrying heat from the fire to the different rooms. 'Because of their ample capacity, Hercules Plants need not be forced during extremely cold weather.
- (5) **Simplicity**—Simple in construction, easy to operate.

Easily Installed in Old or New Buildings in the City or on the Farm



Any of our Hercules Heating Systems can be installed in an old building almost as easily as in a new building. The pipes of a hot water or steam system, if left exposed, can be painted or bronzed to match the walls, making them hardly noticeable. With these systems it is not necessary to have city water pressure, as the plant can be filled with a pail and funnel. After it is in use one or two buckets of water is all that it will need during the entire Winter.

Be Prepared for Winter. Send for an Estimate NOW.



Windows and Outside Doors

- A 4 ft. by 2 ft. 6 in.
- B 3 ft. by 2 ft. 6 in.
- C 3 ft. by 7 ft.

Height of Ceilings

- Basement 7 ft. 0 in.
- First Floor 7 ft. 10 in.
- Second Floor 8 ft. 10 in.

Send us rough drawings like the above of your basement, first floor and any other floors. Give the dimensions of each room, the heights of the ceilings, the location and size of doors, windows, stairways and chimneys. Mark where you would like to place furnace or boiler, registers or radiators (or you can leave this to us). Also tell us what kind of heating you prefer. We will then give you an itemized estimate of the material necessary. And we will guarantee the system to give perfect satisfaction when installed. Find out what it will cost.

Three Principal Modern Heating Systems

Hercules Hot Water and Steam Plants possess in common a number of desirable features. Both use water as the carrier of heat. Water retains heat much better than air—does not lose it as readily when carried a considerable distance. Hot water or steam plants are, therefore, better than warm air furnaces for large houses and other buildings of considerable size.

In a hot water system the water in the boiler, heated by the fire, rises to the radiators where it gives up its heat and then returns through the return pipes to the boiler again. The reason for this circulation of the water is that hot water is lighter than cold water. The hot water in the boiler is forced out and upward by the cooler, heavier water coming down from above.

In the operation of a steam heating system the steam from the boiling water in the boiler rises through the pipes to the radiators. There, on giving up its heat, it is condensed to water again and flows back through the return pipe to the lower part of the boiler.

Hot water heating is recommended for all buildings where a steady, easily controlled heat is required day after day. The heat is easily regulated from merely warm to extremely hot. Steam has the advantage that quicker, more intense heat can be obtained, and the heat can be carried longer distances. Steam heat is almost universally used in tall city skyscrapers, churches and public buildings.

The Advantages of Warm Air Heating

The principles and action of warm air heating are very simple. Air is heated in the upper part of the furnace and rises through the pipes to the rooms above. It continues to rise while hot, and then as it cools begins to drop again, since cold air is heavier than warm air. The cooled air is conducted through a return air register and passage back to the furnace where it is reheated and again rises.

A very important advantage of the circulation afforded by our system is its healthfulness. Scientists have proved that if the air in a building is kept in motion it will continue fit for breathing purposes much longer than when there is no circulation, even if no fresh air is permitted to enter.

Warm air heating systems are particularly recommended for churches, halls and other buildings of only one or two floors, where it is usually necessary to heat up quickly and thoroughly for a few hours and then the fire is allowed to go out. For private homes, where the furnace can be located in the center and where it is not necessary to run very long pipes; where, furthermore, there are only two or three floors to heat, a warm air plant gives excellent results when installed according to the plans we will furnish.

Warm air plants cost less than hot water or steam plants. The registers take up less space in the rooms than the radiators of the other plants. The continuous circulation of the air in the rooms and the fact that this air is constantly being mixed with fresh air coming in through the doors and windows is an advantage that cannot be overlooked.

We leave the choice to you. If installed according to our plans, drawn specially for your building, we guarantee satisfactory results with any of the three systems.



YOU can enjoy all the comforts of an evenly, thoroughly heated home this Winter by installing a pipeless furnace. All the coal, dust and ashes are left in the basement. Only the delightful warmth of the heated air is distributed throughout your home.

A pipeless furnace is especially adapted for heating bungalows or residences where there are large openings between the rooms and open stairways leading to the second floor. Also for heating churches, schools, halls and store buildings where the air

Pipeless Furnaces



can move freely from one end of the building to the other.

The warm air rises from the register in the floor at the top of the furnace and is distributed throughout the different rooms. When it has given up its heat, it settles to the floor and travels back to the furnace.

The saving in buying a pipeless furnace is evident. It gives thoroughly satisfactory service if the conditions are right. The principle of continuous circulation of the air is most healthful. Our Hummer and Hercules Pipeless Furnaces are easy to set up and take little time to install.

If you have no basement or cellar under your home, just dig out a pit where the furnace is to stand, about 6 or 8 feet square and 6 feet high. This is ample space, and a floor of concrete or bricks will make a good foundation for the furnace to stand upon.

Hummer Pipeless Furnace for Soft Coal or Wood Only.

Takes the cold air in at the side near the bottom of the furnace. Furnished with galvanized iron return air shoe and wood cold air grating, but without return air duct. Cold air can be taken in from the basement, or by making a return air duct of tight fitting boards the return air will be taken from the rooms above and all basement air, dust and ashes excluded.

This furnace has given excellent results under many conditions. However, the construction is not as good as that of our Hercules Pipeless Furnace shown below. To keep out the basement air build the return air shaft above mentioned. This is not required with our Hercules Pipeless.

The Hummer Pipeless Furnace has an all cast iron fire pot and steel radiator. Feed door is especially large to take big chunks of wood or coal. Combustion chamber is likewise large and roomy. Will burn coals, slack, stumps, knots—any kind of fuel except hard coal or coke. Fire pot is heavily corrugated. Casing has asbestos felt lining and bright tin reflector. Radiator of heavy cold rolled steel plate, riveted like a boiler with cast iron top and cast lower ring. Deep ash pit and triangular revolving grates.

Prices are for furnace complete with casing, black japanned register, return air shoe, oak grating for cold air return duct, shaker handle, poker, dampers, damper pulleys and cement. Shipped from factory in OHIO. Be sure to give height from basement floor to first floor; also information asked in section below the illustration.

	No. 42N2250%	No. 42N2251 1/2	No. 42N2252%
Diameter of fire pot, inches.....	20	22	24
Diameter of casing, inches.....	36	40	44
Size of feed door, inches.....	10x14	10x14	12x15
Depth of fire pot, inches.....	10 1/2	10 1/2	11
Diameter of smoke pipe, inches.....	8	8	8
Size of register, inches.....	15x24	18x24	18x30
Heating capacity, cubic feet.....	6,000	10,000	15,000
Approximate shipping wt., about, lbs.	625	800	1,000
Price, complete.....	\$56.70	\$64.80	\$73.50

Above prices are subject to market changes. Hot Water Coil for Hummer Furnace, \$2.00 extra. If wanted with Gas Burner in addition to coal grate, write for prices.



Read This Before Ordering.

Information We Must Have Before Filling Your Order for a Pipeless Furnace.

For your own protection, we require the following information when you send in your order: Rough drawings of your first and second floor, if there is one, giving dimensions of the rooms and the position and size of all doors or other openings between the rooms. Show where you will place the furnace in the basement and give height from basement floor to floor level of first floor. This information will enable us to decide whether a pipeless furnace will be suitable to your needs.

Hercules Pipeless Furnace

The combination cold and hot air register at the top of this furnace takes the place of the return air duct necessary to build when using the Hummer Furnace described above. The heated air rises through the center part of the register into the room above and circulates where possible, going through doorways and other openings into the different rooms, continuing to rise while warm, falling again as it grows cooler. As it cools it gradually drops down to the big register, passes through the outer rim into the space between the inner and outer casing and down to the bottom of the furnace, where it is reheated and driven up again into the rooms.

The Hercules Pipeless is so constructed that there is a continual air circulation through it. The cool air is constantly being reheated and distributed throughout the building. This furnace will give you satisfactory service for many years.

The furnace is all cast iron with double lined inner casing. Fire pot made in two sections, heavily corrugated and with deep cup joints. Casing has asbestos felt lining and bright tin reflector, saving heat. Deep ash pit and four revolving grate bars. Black japanned register.

Prices are for furnace complete with register, casing, shaker handle, poker, check draft, chains, pulleys, damper chain plate and cement. Shipped direct from factory in OHIO.

Be sure to give height from basement floor to first floor; also the information called for in paragraph at right headed "Read This Before Ordering."

	No. 42N2255%	No. 42N2256%	No. 42N2257%
Diameter of fire pot, inches.....	20	22	24
Diameter of inside casing, inches....	38	42	46
Diameter of outer casing, inches.....	46	50	54
Size of feed door, inches.....	10x11	11x12	11x13
Depth of fire pot, inches.....	11 1/2	12	12 1/2
Diameter of smoke pipe, inches.....	8	8	8
Size of register, inches.....	30x30	30x36	36x36
Heating capacity, cubic feet.....	8,000	15,000	20,000
Approximate shipping wt., about, lbs.	950	1,160	1,275
Price, complete.....	\$88.75	\$101.30	\$111.95

Above prices are subject to market changes. Hot Water Coil for Hercules Furnace, \$2.00 extra. If wanted with Gas Burner in addition to coal grate, write for prices.

Combination Floor \$2⁷⁵ and Ceiling Register and Ventilator. 8x10 Inches.



Carries excess heat from room below to heat room above. Consists of a black floor register with valves, a white ceiling plate and an adjustable sheet metal box connecting the two. Easily and quickly put into position; just cut hole in floor and ceiling, place register and ceiling plate in position and hook the two coil springs that hold them together. Adjustable to fit any floor or ceiling from 7 to 12 inches apart. State size wanted.

No. 42N2212%	8x10	10x12	12x15
Size opening, about, in.	11	13	18
Shpg. wt., about, lbs.	11	13	18
Price, each.....	\$2.75	\$4.20	\$6.40



Hercules Volcano Warm Air Furnaces.

They burn any kind of fuel. Furnace is made of cast iron throughout. Casing is galvanized sheet steel. Illustration above shows construction. Circular cast iron radiator has divided fire travel and perfect tongue and groove gastight joint. Fire pot made in two sections, heavily corrugated and with deep cup joints. Upper casing has asbestos felt lining and bright tin reflector, preventing loss of heat in basement. Deep ash pit and four triangular revolving grate bars. Prices, complete with casing, shaker handle, poker, check draft, chains, pulleys, regulator plate and cement, but with no pipes of any kind or collars or other fittings. Shipped direct from foundry in OHIO.

Catalog No.	Diameter Fire Pot, Inches	Heating Capacity, Cubic Feet	Shpg. Wt., About, Pounds	Price
42N2190	20	10,000	775	\$ 59.30
42N2191	22	15,000	910	71.95
42N2192	24	20,000	1,115	82.65
42N2193	26	30,000	1,330	99.40
42N2194	28	40,000	1,565	120.55
42N2195	30	50,000	1,710	145.50

All furnace prices are subject to market changes.



Hercules Tropic Warm Air Furnaces.

Catalog No.	Diameter Fire Pot, Inches	Heating Capacity, Cubic Feet	Shipping Weight, Abt., Lbs.	Price, With Casing, as Shown
42N2180	20	10,000	715	\$56.80
42N2181	22	15,000	860	69.00
42N2182	24	20,000	1,040	78.00

All furnace prices are subject to market changes.

They burn hard coal or coke.

Hercules Tropic Furnaces are the same construction as the Hercules Volcano, except that radiator has steel sides instead of cast iron and a full circle fire travel. See illustration above. Shipped direct from foundry in OHIO.



Modern

Let a Hercules Heat Regulator Tend Your Fire.

Fix your fire in the morning, set the regulator for the temperature you wish and leave your furnace or boiler in charge of the regulator. Automatically works the check and draft dampers so as to keep the same open temperature in your home at all times. Clock attachment will open draft damper early in morning at any hour set, livening fire and warming house comfortably before you get up. Easy to install. We send full directions.

The Hercules Heat Regulator No. 42N2065 1/4 consists of a thermostat (also known as a mechanical thermometer), a motor and two dry batteries, complete with copper wire cable, pulleys, chain, etc., all ready to attach to your heating system.

Outfit No. 42N2066 1/4 is the same as No. 42N2065 1/4, with the addition of the clock attachment.

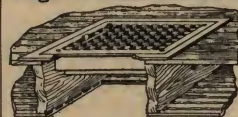
Shipped from our CHICAGO store. Shipping weight, about 27 pounds.

No. 42N2065 1/4 Without clock attachment. Price.....\$18.70

No. 42N2066 1/4 Complete with clock attachment, as illustrated. Price.\$23.70



Registers and Faces for Floor and Ceiling.



When we quote prices on a complete Warm Air Heating Plant, as explained on page 38, we include all necessary registers, borders and faces. We list registers, borders and faces here for the convenience of customers who desire to use them elsewhere than in one of our complete heating plants. These registers and faces are used largely for ventilators and in ceilings over stairs to warm rooms on the second floor. Borders are not necessary with white faces when placed in ceiling or wall. Wall registers and furnace pipe and fittings are listed in our Modern Heating Catalog.

No.	Size	8x10	8x12	10x14	12x15
No. 42N2260	Black Registers	\$1.00	\$1.30	\$1.90	\$2.80
No. 42N2261	Black Borders	80c	\$1.00	\$1.35	\$1.80
No. 42N2262	White Faces	80c	\$1.00	\$1.35	\$1.80
No. 42N2263	White Registers	80c	\$1.00	\$1.35	\$1.80
No. 42N2264	White Borders	80c	\$1.00	\$1.35	\$1.80
No. 42N2265	White Faces	80c	\$1.00	\$1.35	\$1.80

Above prices subject to market changes.

Asbestos Furnace Cement.
The well known old reliable plastic asbestos furnace cement. When heated becomes almost as hard as the iron on which it is used. It makes the joints in a furnace gas and smoke tight. It is often possible to patch up a cracked fire pot with this cement so as to make it last a season or two longer.
No. 42N2206 10-lb. cans. Price, per can.....65c
No. 42N2207 5-lb. cans. Price, per can.....35c
No. 42N2208 2-lb. cans. Price, per can.....20c
We include plenty of this cement with all our furnaces at no extra charge.

Asbestos Paper and Paste.
Asbestos Paper. Used for wrapping furnace pipes. About 1/8 inch thick. Comes in rolls 36 inches wide.
No. 42N2202 100-yd. roll. Wt., abt. 104 lbs. \$16.55
No. 42N2203 50-yd. roll. Wt., about 52 lbs. 8.30
No. 42N2204 25-yd. roll. Wt., about 26 lbs. 4.20
No. 42N2209 Less than 25-yd. roll. Yard. .25
Asbestos Paste for applying asbestos paper to furnace pipes and asbestos or wool felt covering to steam and water pipes. Simply mix with cold water.
No. 42N2205 Asbestos Paste. Price, per 2 1/2-lb. package.....30c

Hercules Clinker Tongs.
No. 42N2003 Picks clinkers, stones or slate out of fire pot without disturbing fire.
Shipping weight, about 3 1/2 pounds.
Price.....\$1.10

No. 42N2004 1/4 Simplex Clinker Tongs. Grip the clinkers like an ice tong. Made of iron with wood hand grip. Length, about 4 feet. Shipping weight, about 4 pounds.
Price.....\$1.25

Galvanized Iron Smoke Pipe, Elbows and Angles.
Shipped from our CHICAGO store or direct from factory in OHIO.
42N2272 42N2275 42N2276
Size, Pipe, Elbows, Angles.
Inches Price, per Foot Price Price Price
7 36c 53c 43c
8 38c 63c 48c
9 39c 70c 53c
10 42c 91c 63c

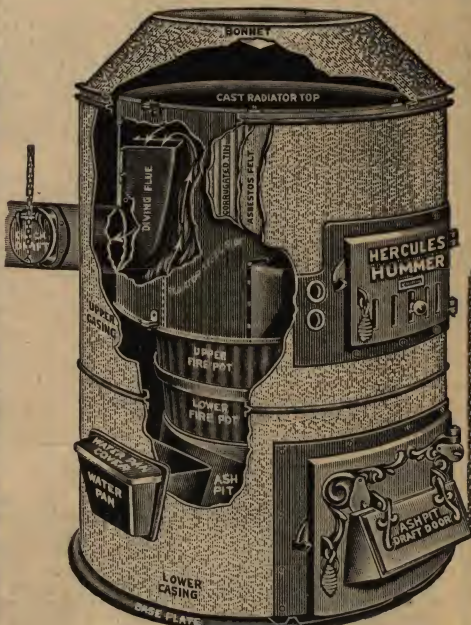
CAST IRON DAMPERS FOR ABOVE SMOKE PIPE.
No. 42N2278 Smoke Dampers.
Size, 7 inches.....36c Size, 9 inches.....52c
Size, 8 inches.....42c Size, 10 inches.....62c



Our Positive Water Coil to fit any of our furnaces, \$2.00 extra.

Volcano, Tropic or Hummer Furnaces can be furnished with a GAS BURNER instead of a coal grate. Write for prices.

The prices of furnaces do not include any registers, pipe or fittings. Furnaces bought alone without fittings are guaranteed only as to quality of material and workmanship. We can only guarantee our furnaces to give the proper results when they are put in according to installing plans, which we furnish.



Hercules Hummer Furnaces.

They burn soft coal or wood.

Illustration above shows the construction of the Hummer Furnaces. They are provided with a large fire door, so big chunks of wood or soft coal can be put into the fire pot. The radiator is made of sheet steel with a cast iron top and bottom. Diving flue diverts smoke and gases from top of dome or radiator to chimney. Fire pot, ash pit and casing are same construction as Hercules Volcano Furnace. Shipped from foundry in OHIO.

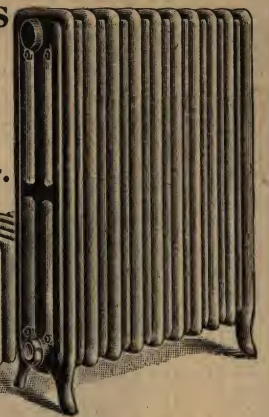
Catalog No.	Diam. of Fire Pot, Inches	Size of Feed Door Opening, Inches	Height of Casing, Inches	Shpg. Wt., including Casing, About, Pounds	Heating Capacity, Cubic Feet	Price, With Casing, as Illustrated
42N2175	20	10x14	56	600	8,000	\$48.80
42N2176	22	10x14	59	750	15,000	61.10
42N2177	24	12x15	62	875	21,000	70.65

Prices subject to market changes.

Heating



HERCULES
Plain Pattern
Radiators
for Steam
and Hot Water.



Hercules is Our Own Trade Mark, Registered in U. S. Patent Office.

Good quality cast iron, properly machined and tested. Graceful, plain design. The smooth flat surfaces, leaving no hollows or corners for dust and dirt, appeal to the good housekeeper.

While only three and five-column radiators are listed below, we can also furnish single and two-column radiators. For full information, write for our Modern Heating Systems Catalog.

When ordering be sure to state whether radiators are wanted for steam or hot water, number of sections, height and whether three or five-column. Also state size and positions of tappings, otherwise tappings will be as below. Pipe will be found on page 23.

STEAM RADIATORS ARE TAPPED AS FOLLOWS, UNLESS OTHERWISE REQUESTED.

Up to 24 feet...1 -inch supply
24 ft. to 50 ft. 1 1/4 -inch supply
50 feet to 100 ft. 1 1/2 -inch supply
Over 100 feet...2 -inch supply

HOT WATER RADIATORS ARE TAPPED AS FOLLOWS, UNLESS OTHERWISE REQUESTED.

Up to 50 ft. 1 -in. feed and return
50 to 75 ft. 1 1/4 -in. feed and return
Over 75 ft. 1 1/2 -in. feed and return

List of Sizes, Hercules Three-Column Radiators

No. of Sections	Total Length, Inches	38-Inch Height, 5 Sq. Ft. per Section	28-Inch Height, 3 3/4 Sq. Ft. per Section	20-Inch Height, 2 3/4 Sq. Ft. per Section
2	5	10	7 1/4	5 1/4
3	7 1/2	15	11 1/4	8 1/4
4	10	20	15	11
5	12 1/2	25	18 3/4	13 3/4
6	15	30	22 1/2	16 1/2
7	17 1/2	35	26 1/4	19 1/4
8	20	40	30	22
9	22 1/2	45	33 3/4	24 3/4
10	25	50	37 1/2	27 1/2

42N2054 1/2	Steam, Price, per square foot...	38c	46c	52c
42N2055 1/2	Hot Water, Price, per square foot...	39c	48c	53c

List of Sizes, Hercules Five-Column Radiators

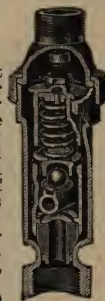
No. of Sections	Total Length, Inches	22-Inch Height, 6 Sq. Ft. per Section	18-Inch Height, 5 Sq. Ft. per Section	14-Inch Height, 4 Sq. Ft. per Section
2	6	12	10	8
3	9	18	15	12
4	12	24	20	16
5	15	30	25	20
6	18	36	30	24
7	21	42	35	28
8	24	48	40	32
9	27	54	45	36
10	30	60	50	40

42N2056 1/2	Steam, Price, per square foot...	50c	56c	60c
42N2057 1/2	Hot Water, Price, per square foot...	50c	56c	60c

Shipped from factory in WESTERN NEW YORK. Prices subject to market changes.

Hot Water Circulator.

No. 42N2160
Our Hercules Hot Water Circulator adds to a hot water heating plant the quick heating ability of steam heat, and 25 per cent extra capacity. Made of phosphor bronze, brass and vulcanized rubber, practically rust-proof. Size tappings, 1 inch. Shipping wt., about 4 pounds.
Price\$9.50



Galvanized Expansion Tanks.

Strongly made of steel, galvanized inside and out. Prices include water gauges complete with cocks and guards, but not the inlet and outlet fittings shown. Size of inlet and overflow, 1 inch.



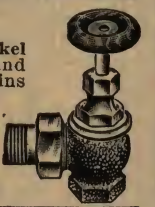
No. 42N2070 1/2

Cap., Gal. About	Size, Inches	Square Feet of Radiation	Wt., About, Lbs.	Price, Including Gauge
8	10x20	0 to 320	31	\$ 8.80
10	12x20	320 to 400	40	9.35
15	12x30	400 to 600	48	10.40
20	14x30	600 to 800	60	13.95
26	16x30	800 to 1,040	74	15.60
32	16x36	1,040 to 1,280	88	16.65

Steam Radiator Valves.

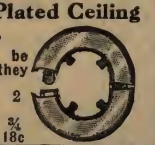
No. 42N2090 Nickel plated brass with ground joint union and Jenkins disc.

Size, In.	Shpg. Wt., Lbs.	Price, Each
1 1/2	1 1/2	\$1.38
1 1/4	3 1/2	1.72
1 1/2	5	2.31
2	8	2.92



Adjustable Nickel Plated Ceiling and Floor Plates.

No. 42N2147 Can be placed on the pipes after they are in position.
Size, in. 1/2 1 1/4 1 1/2 2
Shpg. wt., lbs. 1/2 3/4 3/4 3/4
Price.....11 1/2 13c 15c 16c 18c



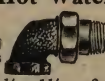
Compression Air Valve With Key.

No. 42N2131 With lock and shield, solid brass, nickel plated. Shipping weight, 2 ounces.
Size, 1/2 inch.....11c
Keys, extra.....5c



Union Elbow for Hot Water Radiators.

No. 42N2140 Nickel Plated Brass Union Elbows for hot water radiators.
Size, inches....1/2 1 1/4 1 1/2 2
about, lbs....1 1/2 2 2 1/2 3 5 5
Price73c 91c \$1.16 \$1.45 \$2.53



Hot Water Radiator Valves.

No. 42N2085 Solid brass nickel plated, with union; one-half turn opens valve to full capacity.

Size, In.	Shpg. Wt., Lbs.	Price, Each
1 1/2	2 1/2	\$1.03
1 1/4	2 1/2	1.32
1 1/2	3 1/2	1.83
2	4	2.59
	6	3.94



Altitude Gauge.

No. 42N2075 For showing height of water in hot water heating plant. Size tapping, 1 in. Shipping weight, 4 pounds.
Price.....\$1.90
For pressure gauges see page 24.

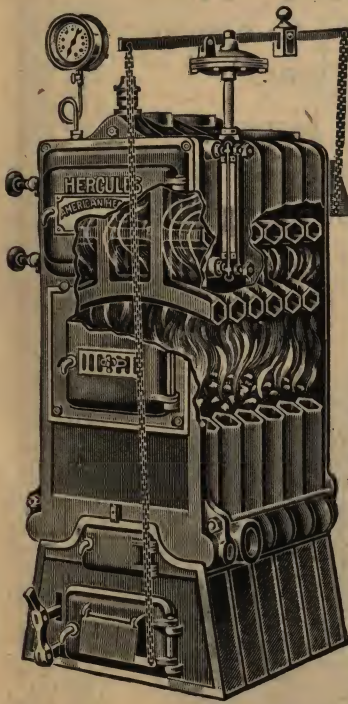


Automatic Air Valve.

No. 42N2136 Nickel Plated Brass Air Valve for steam. Threaded for 1/2-inch pipe connections. Shipping weight, about 4 oz.
Price45c

Hot Water Thermometer.

No. 42N2080 For hot water systems. Registers up to 260 degrees Fahrenheit. Has 1/2-inch pipe thread. Shipping weight, about 1 1/2 pounds.
Price73c



HERCULES IMPROVED SECTIONAL BOILERS range in capacity from 300 to 1,750 square feet hot water radiation and 150 to 1,050 square feet steam radiation. Have all the advantages of the round boiler—compact fire pot and simple construction, while they also have the superior advantages of the sectional boiler—long fire travel, increased heating surface and correct proportions between grate and heating surfaces. Fire pot deep, holding enough coal to maintain proper amount of heat for twelve hours. Each boiler thoroughly tested before leaving factory. Dimensions shown below may vary slightly. Read further description below. All boilers shipped from factory in WESTERN NEW YORK.

The illustration at the left shows the internal construction of No. 42N2024 1/2 and No. 42N2025 1/2 Boilers.

Our Steam Boilers are furnished complete with all steam trimmings, such as pressure gauge, water gauge, damper regulator and safety valve. These are not necessary with hot water boilers. All boilers are furnished complete with firing tools, including hoe, poker, rake and flue brush with rod. All boilers tapped for inlet and outlet pipes, altitude gauge and thermometer.

Nos. 42N2022 1/2 to 42N2025 1/2 Boilers are made up and shipped in two parts; base and grates in one, sections in other. Can be taken through openings as small as 26x36 inches.

Nos. 42N2026 1/2 and 42N2027 1/2 Boilers are not shipped with the sections put together as they would be too heavy to handle if shipped that way. The sections are separate and all trimmings are packed in a box. These boilers are of the double fire travel pattern, which adds much to their efficiency.

No. 42N2022 1/2 Steam Boilers.

No. 42N2023 1/2 Hot Water Boilers.

No.	Size of Fire Pot, Inches	Size of Smoke Pipe, In.	Height Over All, Inches	Floor Space, Incl. Smoke Box, In.	Flow and Return, Tappings	Rating, Hot Water	Rating, Steam	Price, Hot Water	Price, Steam
134	13 1/2 x 12	7	49 1/2	23x24	2-2 in.	300	150	\$41.15	\$47.15
135	13 1/2 x 15	7	49 1/2	23x28	2-2 in.	400	225	56.00	62.00

No. 42N2024 1/2 Steam Boilers.

No. 42N2025 1/2 Hot Water Boilers.

No.	Size of Fire Pot, Inches	Size of Smoke Pipe, In.	Height Over All, Inches	Floor Space, Incl. Smoke Box, In.	Flow and Return, Tappings	Rating, Hot Water	Rating, Steam	Price, Hot Water	Price, Steam
174	17x14	9	58	26x25	2-2 1/2 in.	500	325	\$71.20	\$76.05
175	17x17	9	58	26x28	2-2 1/2 in.	700	425	78.00	85.80
176	17x21	9	58	26x32	2-2 1/2 in.	900	525	89.25	97.05
177	17x25	9	58	26x36	2-2 1/2 in.	1,050	625	105.00	113.10

No. 42N2026 1/2 Steam Boilers.

No. 42N2027 1/2 Hot Water Boilers.

No.	Size of Fire Pot, Inches	Size of Smoke Pipe, In.	Height Over All, Inches	Floor Space, Incl. Smoke Box, In.	Flow and Return, Tappings	Rating, Hot Water	Rating, Steam	Price, Hot Water	Price, Steam
215	21x20	8	52	33x38	2-3 in.	1,000	600	Prices quoted on application	Prices quoted on application
216	21x32	10	52	33x45	2-3 in.	1,250	750	Prices quoted on application	Prices quoted on application
217	21x38	10	52	33x51	2-3 in.	1,500	900	Prices quoted on application	Prices quoted on application
218	21x44	10	52	33x58	2-3 in.	1,750	1,050	Prices quoted on application	Prices quoted on application

ALL BOILER PRICES QUOTED ARE SUBJECT TO MARKET CHANGES. PRICE OF LARGER SIZE BOILERS QUOTED ON APPLICATION.

A DIGNIFIED SYMBOL OF HONOR AND RESPECT

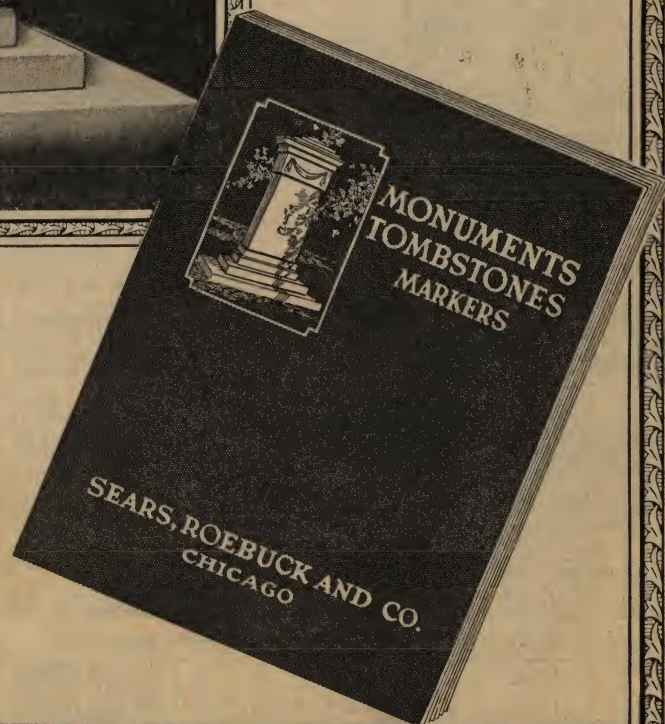


AT SOME time there falls to most of us the duty of providing a fitting tribute to the memory of those who have passed on, a token of our own loving esteem, and at the same time a lasting monument that will fittingly preserve their memory to coming generations.

We respectfully offer our assistance in performing this worthy task.

WE OFFER for your consideration a complete selection of marble and granite monuments, tombstones, grave markers, cemetery fencing and grave enclosures of very high quality. At the same time our prices are far lower than you would expect for the high quality.

Write for our Catalog of Monuments and Tombstones. Ask for Catalog No. 572N.



EXPRESS RATES

Tables showing the Express Rates per 100 pounds on goods shipped from Chicago to a number of cities in each state, these cities being used as a basis for figuring rates for all the towns in the immediate vicinity of each city. Your express agent will tell you the exact rates from Chicago to your home town and give you full information in reference to their delivery service. If there is no express agent at your shipping point you must send money to prepay express charges. If there is an agent you can pay the express charges when shipment reaches you. It is necessary to prepay only when there is no agent at your station.

HOW TO FIGURE EXPRESS CHARGES

First estimate the weight of goods you are ordering; then find the rate per 100 pounds by express to your nearest city in the Table of Rates below; then consult the Scale of Express Charges, following the line for the weight of your goods to the

column headed by your express rate per 100 pounds, and the amount shown will be the express charges.

If the exact rate per 100 pounds to your town is not shown in any of the headings of this scale, take the rate shown for the town nearest you and the express charges will be about the same as to your town.

EXPRESS RATES PER 100 POUNDS TO CITIES IN EACH STATE.

From Chicago to	Express, per 100 Pounds.	From Chicago to	Express, per 100 Pounds.	From Chicago to	Express, per 100 Pounds.	From Chicago to	Express, per 100 Pounds.	From Chicago to	Express, per 100 Pounds.
ALABAMA—		GEORGIA—		MARYLAND—		NEW JERSEY—		SOUTH DAKOTA—	
Birmingham.....	\$2.64	Atlanta.....	\$2.88	Baltimore.....	\$2.47	Atlantic City.....	\$2.64	Aberdeen.....	\$3.46
Brewton.....	3.13	Macon.....	3.13	MASSACHUSETTS—		Trenton.....	2.64	Bellefourche.....	4.18
Mobile.....	3.24	Savannah.....	3.32	Boston.....	2.75	NEW MEXICO—		Sioux Falls.....	2.69
Montgomery.....	2.86	Waycross.....	3.46	MICHIGAN—		Gallup.....	6.87	Watertown.....	3.02
ARIZONA—		IDAHO—		Santa Fe.....	2.47	Silver City.....	5.22	TENNESSEE—	
Phoenix.....	\$3.80	Boise.....	8.63	Detroit.....	1.37	NEW YORK—		Jackson.....	2.14
Tucson.....	7.86	Pocatello.....	7.70	Grand Rapids.....	1.10	Albany.....	2.53	Knoxville.....	2.64
ARKANSAS—		ILLINOIS—		Traverse City.....	1.76	Buffalo.....	1.98	Memphis.....	2.31
Arkansas City.....	2.75	Cairo.....	1.50	MINNESOTA—		New York.....	2.64	Nashville.....	1.92
Fort Smith.....	3.19	Joliet.....	.60	Crookston.....	2.91	Syracuse.....	2.20	TEXAS—	
Hot Springs.....	3.19	Rock Island.....	1.00	Duluth.....	3.35	NORTH CAROLINA—		El Paso.....	6.54
Little Rock.....	2.91	Springfield.....	1.15	Grand Rapids.....	2.64	Asheville.....	2.86	Fort Worth.....	4.23
Toxarkana.....	3.46	INDIANA—		Minneapolis.....	3.02	Raleigh.....	3.24	Houston.....	4.51
CALIFORNIA—		Evansville.....	1.37	Winona.....	1.87	Wilmington.....	3.52	UTAH—	
Bakersfield.....	9.79	Fort Wayne.....	1.10	MISSISSIPPI—		NORTH DAKOTA—		Marysville.....	8.03
Los Angeles.....	9.79	Indianapolis.....	1.10	Jackson.....	2.91	Bismarck.....	4.01	Salt Lake City.....	7.20
San Francisco.....	10.23	Richmond.....	1.37	Natchez.....	3.19	Fargo.....	3.19	VERMONT—	
COLORADO—		South Bend.....	.82	MISSOURI—		Grand Forks.....	4.18	Montpelier.....	2.75
Denver.....	4.62	IOWA—		Kansas City.....	2.31	Minot.....	4.51	Marion.....	2.69
Durango.....	6.49	Des Moines.....	1.98	St. Louis.....	1.54	Williston.....	4.51	Richmond.....	2.86
Grand Junction.....	6.05	Fort Dodge.....	2.14	Springfield.....	2.47	OHIO—		Rocky Mount.....	2.86
Julesburg.....	4.07	Sioux City.....	2.69	St. Paul.....	5.94	Chuchmati.....	1.37	WASHINGTON—	
Leadville.....	5.50	Dodge City.....	3.00	Billing.....	5.22	Columbus.....	1.65	Seattle.....	9.46
CONNECTICUT—		Great Bend.....	3.46	Glasgow.....	5.22	Toledo.....	1.26	Spokane.....	8.52
Hartford.....	2.80	Kansas City.....	2.31	Havre.....	6.10	OKLAHOMA—		WEST VIRGINIA—	
DELAWARE—		Topeka.....	2.47	Helena.....	7.48	Oklahoma City.....	3.79	Charleston.....	2.03
Dover.....	2.53	Wichita.....	3.46	Kalspell.....	5.17	OREGON—		Elkins.....	2.42
DISTRICT OF COLUMBIA—		KENTUCKY—		Miles City.....	1.54	Portland.....	9.73	Wheeling.....	1.76
Washington.....	2.47	Frankfort.....	1.81	NEBRASKA—		PENNSYLVANIA—		WISCONSIN—	
FLORIDA—		Louisville.....	1.37	Lincoln.....	2.69	Harrisburg.....	2.36	Ashland.....	2.47
Jacksonville.....	3.79	Morehead.....	1.76	North Platte.....	2.47	Philadelphia.....	2.42	La Crosse.....	1.43
Miami.....	5.00	LOUISIANA—		Omaha.....	2.47	Pittsburgh.....	1.87	Madison.....	1.26
Pensacola.....	3.41	Lake Charles.....	3.79	NEVADA—		RHODE ISLAND—		Marquette.....	1.92
Tallahassee.....	3.52	New Orleans.....	3.57	Austin.....	8.96	Providence.....	2.80	Milwaukee.....	.99
Tampa.....	4.40	Shreveport.....	3.41	NEW HAMPSHIRE—		SOUTH CAROLINA—		WYOMING—	
		Bangor.....	3.24	Concord.....	2.80	Charleston.....	3.74	Cheyenne.....	4.56
						Greenville.....	3.24	Green River.....	6.38
						Sumter.....	3.52	Lander.....	5.88
								Sheridan.....	5.17

SCALE OF EXPRESS CHARGES BASED ON THE RATE PER 100 POUNDS.

Rate per 100 lbs....	\$0.60	\$0.82	\$0.99	\$1.00	\$1.10	\$1.15	\$1.26	\$1.37	\$1.48	\$1.50	\$1.54	\$1.65	\$1.76	\$1.81	\$1.87	\$1.92	\$1.98	\$2.03	\$2.14	\$2.20
CHARGES ON																				
Package of 1 lb....	.26	.29	.29	.26	.29	.26	.29	.29	.29	.26	.29	.29	.29	.29	.29	.29	.30	.30	.30	.30
Package of 2 lbs....	.26	.29	.29	.26	.29	.26	.29	.29	.29	.26	.29	.29	.29	.29	.29	.29	.30	.30	.30	.30
Package of 5 lbs....	.27	.30	.31	.29	.32	.29	.32	.33	.33	.31	.34	.34	.35	.35	.35	.35	.36	.36	.36	.37
Package of 10 lbs....	.28	.33	.34	.32	.35	.34	.37	.38	.40	.37	.40	.41	.42	.43	.43	.44	.44	.45	.46	.46
Package of 15 lbs....	.30	.35	.38	.36	.40	.38	.42	.44	.45	.42	.46	.48	.49	.51	.52	.52	.53	.54	.55	.56
Package of 20 lbs....	.32	.38	.42	.40	.44	.43	.47	.49	.52	.50	.53	.55	.57	.58	.59	.60	.62	.63	.65	.66
Package of 25 lbs....	.34	.41	.45	.44	.48	.47	.52	.55	.57	.56	.59	.62	.65	.68	.67	.68	.70	.71	.74	.76
Package of 30 lbs....	.35	.44	.48	.47	.52	.52	.57	.60	.64	.62	.65	.68	.71	.74	.75	.77	.78	.80	.84	.85
Package of 35 lbs....	.37	.46	.53	.51	.56	.56	.62	.66	.69	.69	.71	.76	.79	.81	.84	.85	.87	.89	.92	.95
Package of 40 lbs....	.39	.49	.56	.55	.60	.61	.67	.71	.76	.75	.78	.82	.87	.89	.91	.93	.96	.98	1.02	1.04
Package of 45 lbs....	.41	.52	.59	.59	.65	.65	.71	.77	.81	.81	.85	.89	.95	.97	.99	1.01	1.04	1.07	1.11	1.14
Rate per 100 lbs....	\$2.31	\$2.36	\$2.42	\$2.47	\$2.53	\$2.64	\$2.69	\$2.75	\$2.80	\$2.86	\$2.91	\$3.02	\$3.13	\$3.19	\$3.24	\$3.35	\$3.41	\$3.46	\$3.52	\$3.57
CHARGES ON																				
Package of 1 lb....	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.31	.31	.31	.31	.31	.31	.31	.31
Package of 2 lbs....	.32	.32	.32	.32	.32	.32	.32	.32	.33	.33	.33	.33	.33	.33	.33	.34	.34	.34	.34	.34
Package of 5 lbs....	.37	.37	.38	.38	.38	.40	.40	.40	.40	.41	.41	.42	.42	.42	.43	.43	.43	.44	.44	.44
Package of 10 lbs....	.47	.48	.48	.49	.51	.52	.52	.53	.53	.54	.55	.56	.56	.57	.58	.58	.59	.59	.60	.60
Package of 15 lbs....	.58	.58	.59	.60	.62	.63	.64	.65	.65	.66	.67	.68	.70	.71	.71	.74	.75	.75	.76	.77
Package of 20 lbs....	.68	.69	.70	.71	.73	.75	.76	.77	.78	.79	.80	.82	.85	.86	.87	.89	.90	.91	.92	.93
Package of 25 lbs....	.78	.79	.81	.82	.84	.87	.88	.89	.90	.92	.93	.96	.99	1.00	1.01	1.04	1.06	1.07	1.09	1.10
Package of 30 lbs....	.88	.90	.91	.93	.95	.98	1.00	1.01	1.03	1.04	1.07	1.10	1.13	1.14	1.17	1.20	1.21	1.23	1.24	1.26
Package of 35 lbs....	.99	1.00	1.02	1.04	1.07	1.10	1.12	1.14	1.15	1.18	1.20	1.23	1.28	1.30	1.31	1.35	1.37	1.39	1.41	1.43
Package of 40 lbs....	1.09	1.11	1.13	1.15	1.18	1.22	1.24	1.26	1.29	1.31	1.33	1.37	1.42	1.44	1.46	1.51	1.53	1.55	1.57	1.59
Package of 45 lbs....	1.19	1.21	1.24	1.26	1.29	1.34	1.36	1.39	1.41	1.44	1.46	1.51	1.56	1.58	1.61	1.66	1.68	1.70	1.74	1.76
Rate per 100 lbs....	\$3.74	\$3.79	\$3.90	\$4.01	\$4.07	\$4.18	\$4.23	\$4.40	\$4.51	\$4.56	\$4.62	\$5.00	\$5.17	\$5.22	\$5.50	\$5.88	\$5.94	\$6.05	\$6.10	\$6.38
CHARGES ON																				
Package of 1 lb....	.31	.31	.31	.31	.31	.32	.32	.32	.32	.32	.32	.32	.32	.32	.33	.33	.33	.33	.33	.34
Package of 2 lbs....	.34	.34	.35	.35	.35	.35	.35	.35	.36	.36	.36	.37	.37	.37	.37	.38	.38	.38	.40	.40
Package of 5 lbs....	.45	.45	.45	.46	.46	.47	.47	.48	.48	.48	.49	.51	.52	.52	.54	.55	.56	.56	.56	.58
Package of 10 lbs....	.62	.63	.64	.65	.65	.66	.67	.68	.69	.70	.70	.75	.76	.77	.79	.84	.84	.85	.86	.88
Package of 15 lbs....	.79	.80	.81	.84	.85	.86	.87	.89	.91	.91	.92	.98	1.01	1.01	1.06	1.11	1.12	1.14	1.14	1.19
Package of 20 lbs....	.97	.98	1.00	1.02	1.03	1.06	1.07	1.10	1.12	1.13	1.14	1.22	1.25	1.26	1.32	1.40	1.41	1.43	1.44	1.50
Package of 25 lbs....	1.14	1.15	1.18	1.21	1.22	1.25	1.26	1.31	1.33	1.34	1.36	1.45	1.50	1.51	1.58	1.67	1.69	1.72	1.73	1.80
Package of 30 lbs....	1.31	1.33	1.36	1.40	1.41	1.44	1.46	1.51	1.54	1.56	1.57	1.69	1.74	1.76	1.84	1.96	1.97	2.00	2.02	2.10
Package of 35 lbs....	1.48	1.51	1.54	1.58	1.61	1.64	1.66	1.72	1.76	1.77	1.79	1.92	1.99	2.00	2.10	2.23	2.25	2.30	2.31	2.41
Package of 40 lbs....	1.66	1.68	1.73	1.77	1.79	1.84	1.86	1.92	1.97	1.99	2.01	2.17	2.23	2.25	2.36	2.52	2.54	2.58	2.61	2.72
Package of 45 lbs....	1.84	1.86	1.90	1.96	1.98	2.03	2.06	2.13	2.18	2.20	2.23	2.40	2.47	2.50	2.63	2.79	2.83	2.87	2.89	3.03
Rate per 100 lbs....	\$6.49	\$6.54	\$6.87	\$7.15	\$7.20	\$7.26	\$7.48	\$7.70	\$7.86	\$8.03	\$8.52	\$8.63	\$8.80	\$8.96	\$9.46	\$9.51	\$9.73	\$9.79	\$10.23	.....
CHARGES ON																				
Package of 1 lb....	.34	.34	.34	.34	.34	.34	.35	.35	.35	.35	.35	.36	.36	.36	.36	.36	.37	.37	.37	.....
Package of 2 lbs....	.40	.40	.41	.41	.42	.42	.42	.42	.43	.43	.44	.44	.44	.45	.46	.46	.46	.46	.47	.....
Package of 5 lbs....	.58	.58	.60	.62	.62	.63	.64	.65	.65	.66	.68	.69	.70	.74	.74	.75	.75	.75	.77	.....
Package of 10 lbs....	.89	.90	.93	.96	.97	.99	.99	1.01	1.03	1.04	1.10	1.11	1.12	1.14	1.19	1.20	1.22	1.22	1.26	.....
Package of 15 lbs....	1.21	1.21	1.26	1.31	1.31	1.32	1.35	1.39	1.41	1.44	1.51	1.53	1.55	1.57	1.65	1.66	1.69	1.70	1.77	.....
Package of 20 lbs....	1.52	1.53	1.59	1.65	1.66	1.67	1.72	1.76	1.79	1.83	1.92	1.95	1.98	2.01	2.12	2.12	2.17	2.18	2.27	.....
Package of 25 lbs....	1.83	1.84	1.92	1.99	2.00	2.02	2.08	2.13	2.17	2.21	2.33	2.36	2.41	2.44	2.57	2.58	2.64	2.65	2.76	.....

FREIGHT RATES

Table showing the freight rates per 100 pounds on goods shipped from Chicago to a number of cities in each state, these cities being used by the railroads as a basis for figuring rates for all the towns in the immediate vicinity of each city.

RAILROAD COMPANIES FIGURE FREIGHT RATES WITH THE LARGER CITIES. IN EACH STATE AS A BASIS. All other towns located in the same part of the state as any one of these cities take practically the same rate or only a few cents per 100 pounds more or less than the rate to the larger city.

Please consult the following Table of Rates, considering it in connection with the classification of merchandise, and you will be able to determine easily, almost exactly, what the freight will amount to on any goods. If your station is not named in this table, the rate to your station will be very nearly the same as the rate to the nearest city named, or you may ask your freight agent.

CLASSIFICATION OF MERCHANDISE FOR FREIGHT SHIPMENTS.

You will notice in the Freight Table below there are four different rates quoted to each city, first class, second class, third class and fourth class. This is because the railroad companies base their rates on the kind of merchandise to be carried. In order, therefore, to give you an idea as to the rate which any kind of merchandise will take to your nearest city, we tell you here the kind of merchandise which takes the different classes of rates.

FOUR TIMES FIRST CLASS	FIRST CLASS	FIRST CLASS	FIRST CLASS	SECOND CLASS	THIRD CLASS
Row Boats (East and South)	Ammunition (South)	Graphophones	Wagon Wheels (East and West)	Oilcloth	Stump Pullers (East R25)
THREE TIMES FIRST CLASS	Automobile Repairs	Harness and Saddlery		Oils (East)	Tools (East)
Drums (musical)	Awning	Horse Clipping Machines (South)	SECOND CLASS	Plumbing Material	Vises (East R26)
Reed Chairs (East and West)	Baby Carriages (South)	Incubators (West and South)	Animal Traps	Pulley	Windmills (East R25)
Row Boats (West)	Bathtubs	Ladders (West and South)	Hedsteads	Refrigerators	Wire Fencing (East R26)
DOUBLE FIRST CLASS	Bob Sleds (East)	Lamps	Bob Sleds (West)	Sewing Machines (South)	FOURTH CLASS
Buggies (54-in. crates) (East)	Books	Loaded Gun Shells (South)	China ware (East and West)	Tools (West and South)	Anvils
Cameras (West)	Boots and Shoes	Mattings	Concrete Block Machines (West)	Vacuum Cleaners	Chick Feed and Scratch Feed (West). See page 1480.
Dress Forms	Brooders	Milk Cans (West and South)	Cream Separators	Vises (West and South)	Concrete Block Machines (South)
Reed Chairs (South)	Buggies (34-in. crates) (West and South)	Morris Chairs	Crockery (West)	Wagons, Children's (West)	Crockery (South)
Road Carts	Cameras (East and South)	Notions	Dressers (South)	Wall Paper	Grindstones with Frames (South)
Sleds, Children's (West)	Camera Supplies	Oil Stoves	Extension Tables	Hand Washing Machines	Paints (West and South)
1/2 TIMES FIRST CLASS	Carpet	Pianos and Organs	Feed Troughs, Castor Wrought Iron	Woodenware	Poultry Food
Baby Carriages (East and West)	China ware (South)	Pictures	Forges (East and South)	Wringers	Prepared Roofing (East R26)
Bicycles	Clocks	Rubber Goods	Gasoline Engines (East)	Wheelbarrows	Steel Roofing
Buggies (34-in. crates) (East)	Clothing	Rugs	Glassware (East R25)	Church, School and Farm Bells (East R25)	Steel Siding
Buggies (54-in. crates) (West and South)	Concrete Block Machines (East)	Sewing Machines (West and East)	Grindstones with Frames (West)	Crockery (East R25)	Stock Food
Desks (East)	Couche	Sporting Goods	Hardware (West and South)	Farm Implements (East R25)	Wagons, Farm (South)
Milk Cans (East)	Curtains	Stationery	Horse Clipping Machines (West and East)	Gasoline Engines (South)	Wagon Wheels (South)
Sleds, Children's (East and South)	Desks (West and South)	Tents	Incubators (East)	Grindstones with Frames (East R25)	Wire, Plain or Barbed
Trunks (East)	Dressers (East and West)	Tools	Ladders (East)	Hand Pumps (East R25)	FIFTH CLASS
	Drugs	Trunks (West and South)	Loaded Gun Shells (West and East)	Hardware (East)	Chick Feed and Scratch Feed (East). See page 1480.
	Dry Goods	Valises		Iron Pots and Kettles	CLASS "D"
	Electrical Goods	Wagons, Children's (East and South)		Iron Safes	Chick Feed and Scratch Feed (South). See page 1480.
	Fire Arms	Wagons, Farm (East and West)		Oils (West and South)	
	Gasoline Engines (West)			Paints (East)	
				Stoves and Ranges (East Iron)	

HERE ARE THE RATES PER 100 POUNDS TO DIFFERENT TOWNS IN EACH STATE.

From Chicago to	1st Class Freight, per 100 Pounds.	2d Class Freight, per 100 Pounds.	3d Class Freight, per 100 Pounds.	4th Class Freight, per 100 Pounds.	From Chicago to	1st Class Freight, per 100 Pounds.	2d Class Freight, per 100 Pounds.	3d Class Freight, per 100 Pounds.	4th Class Freight, per 100 Pounds.	From Chicago to	1st Class Freight, per 100 Pounds.	2d Class Freight, per 100 Pounds.	3d Class Freight, per 100 Pounds.	4th Class Freight, per 100 Pounds.
ALABAMA—					KENTUCKY—					NORTH DAKOTA—				
Birmingham	\$1.85	\$1.58	\$1.32	\$1.07	Frankfort	\$0.92	\$0.78	\$0.64	\$0.50	Bismarck	\$2.00	\$1.69	\$1.34	\$0.96
Brewton	2.06	1.70	1.40	1.16	Hopkinsville	1.00	.82	.69	.58	Fargo	1.47	1.24	.97	.68
Mobile	1.38	1.13	.94	.73	Louisville .....	.67	.57	.45	.34	Grand Forks	1.55	1.30	1.04	.73
Montgomery	1.87	1.64	1.40	1.10	Morehead	1.15	.96	.75	.56	Minot	2.19	1.87	1.50	1.09
ARIZONA—					LOUISIANA—					Williston	2.49	2.08	1.70	1.24
Phoenix	3.63	3.14	2.62	2.19	Lake Charles	1.95	1.65	1.34	1.15	OHIO—				
Tucson	3.63	3.14	2.62	2.19	New Orleans	1.38	1.13	.94	.73	Cincinnati .....	.64	.55	.43	.32
ARKANSAS—					Shreveport	1.82	1.53	1.25	1.07	Columbus .....	.67	.57	.45	.33
Arkansas City	1.50	1.27	.97	.74	MAINE—					Toledo .....	.61	.52	.41	.31
Fort Smith	1.63	1.39	1.09	.87	Bangor	1.22	1.07	.82	.58	OKLAHOMA—				
Hot Springs	1.94	1.65	1.32	1.02	MARYLAND—					Oklahoma City	1.88	1.62	1.34	1.09
Little Rock	1.50	1.27	.97	.74	Baltimore	1.00	.95	.72	.49	OREGON—				
Texarkana	1.84	1.59	1.35	1.20	MASSACHUSETTS—					Portland	4.25	3.60	3.07	2.59
CALIFORNIA—					Boston	1.22	1.07	.82	.58	PENNSYLVANIA—				
Bakersfield	4.25	3.69	3.07	2.59	MICHIGAN—					Harrisburg	1.00	.95	.72	.49
Los Angeles	4.15	3.69	3.07	2.59	Bessemer .....	.82	.69	.55	.35	Philadelphia	1.10	.97	.73	.50
San Francisco	4.25	3.69	3.07	2.59	Detroit .....	.63	.54	.43	.32	Pittsburgh .....	.78	.66	.52	.40
COLORADO—					Grand Rapids .....	.59	.50	.40	.30	RHODE ISLAND—				
Denver	2.25	1.82	1.38	1.07	Traverse City .....	.77	.66	.52	.39	Providence	1.22	1.07	.82	.58
Durango	4.00	3.38	2.69	2.01	MINNESOTA—					SOUTH CAROLINA—				
Grand Junction	3.32	2.79	2.32	1.89	Albany	1.16	.98	.78	.53	Charleston	1.83	1.55	1.37	1.20
Julesburg	2.10	1.77	1.34	1.07	Crookston	1.40	1.24	1.00	.68	Greenville	1.95	1.73	1.48	1.18
Leadville	3.32	2.79	2.32	1.87	Duluth .....	.82	.69	.55	.35	Sumter	1.98	1.73	1.48	1.18
CONNECTICUT—					Grand Rapids	1.23	1.03	.83	.55	SOUTH DAKOTA—				
Hartford	1.22	1.07	.82	.58	Minneapolis .....	.75	.63	.50	.32	Aberdeen	1.43	1.19	.84	.63
DELAWARE—					Winona .....	.63	.53	.42	.29	Bellefourche	2.43	2.03	1.69	1.38
Dover	1.13	1.00	.77	.54	MISSISSIPPI—					Sioux Falls	1.04	.85	.59	.43
DIST. OF COLUMBIA—					Hattiesburg	1.62	1.37	1.17	.98	Watertown	1.20	1.03	.80	.57
Washington	1.00	.95	.72	.49	Jackson	1.58	1.33	1.13	.95	TENNESSEE—				
FLORIDA—					Natchez	1.38	1.13	.94	.73	Jackson	1.33	1.09	.89	.73
Jacksonville	1.83	1.55	1.37	1.20	MISSOURI—					Knoxville	1.39	1.37	1.14	.92
Miami	3.04	2.64	2.33	2.08	Kansas City	1.00	.82	.57	.40	Memphis	1.07	.82	.69	.54
Pensacola	1.38	1.13	.94	.73	St. Louis .....	.57	.47	.36	.29	Nashville	1.23	1.03	.82	.68
Tallahassee	2.48	2.14	1.84	1.49	Springfield	1.03	.90	.63	.47	TEXAS—				
Tampa	2.45	2.09	1.79	1.60	MONTANA—					El Paso	2.75	2.33	1.90	1.63
GEORGIA—					Billings	3.13	2.62	2.12	1.70	Fort Worth	2.09	1.77	1.45	1.33
Atlanta	1.98	1.70	1.44	1.17	Glasgow	2.82	2.40	1.94	1.48	Houston	2.09	1.77	1.45	1.33
Macon	1.98	1.70	1.44	1.17	Havre	3.13	2.68	2.18	1.70	UTAH—				
Savannah	1.83	1.55	1.37	1.20	Helena	3.32	2.83	2.32	1.87	Marysville	3.94	3.39	2.89	2.42
Waycross	2.33	2.00	1.77	1.48	Kalispell	3.44	2.94	2.42	1.97	Salt Lake City	3.32	2.79	2.32	1.87
IDAH0—					Miles City	2.82	2.40	1.94	1.48	VERMONT—				
Boise	3.52	3.02	2.50	2.07	NEBRASKA—					Montpelier	1.22	1.07	.82	.58
Pocatello	3.33	2.79	2.32	1.87	Lincoln	1.07	.88	.62	.45	VIRGINIA—				
ILLINOIS—					North Platte	1.95	1.63	1.24	.98	Marion	1.24	1.08	.82	.57
Cairo .....	.59	.48	.39	.30	Omaha	1.00	.82	.57	.40	Richmond	1.09	.95	.72	.49
Joliet .....	.27	.22	.19	.19	NEVADA—					Rocky Mount	1.49	1.25	.99	.74
Rock Island .....	.48	.38	.29	.24	Austin	4.57	4.10	3.62	3.02	WASHINGTON—				
Springfield .....	.48	.40	.30	.25	Carson City	3.94	3.46	2.93	2.51	Seattle	4.25	3.69	3.07	2.59
INDIANA—					NEW HAMPSHIRE—					Spokane	3.63	3.14	2.62	2.19
Evansville .....	.64	.52	.43	.33	Concord	1.22	1.07	.82	.58	WEST VIRGINIA—				
Fort Wayne .....	.51	.45	.34	.26	NEW JERSEY—					Charleston .....	.78	.66	.52	.39
Indianapolis .....	.58	.49	.38	.29	Atlantic City	1.19	1.05	.82	.59	Elkins .....	.90	.79	.60	.42
Richmond .....	.60	.52	.40	.30	Trenton	1.13	.99	.75	.53	Wheeling .....	.78	.66	.52	.39
South Bend .....	.43	.37	.28	.22	NEW MEXICO—					WISCONSIN—				
IOWA—					Gallup	3.63	3.14	2.62	2.19	Ashtab .....	.82	.69	.55	.35
Des Moines .....	.75	.60	.45	.34	Santa Fe	2.75	2.33	1.88	1.57	La Crosse .....	.63	.53	.42	.29
Fort Dodge .....	.82	.65	.48	.37	Silver City	3.25	2.77	2.28	1.95	Madison .....	.49	.43	.33	.23
Sioux City	1.00	.82	.57	.40	NEW YORK—					Marquette .....	.54	.45	.37	.29
KANSAS—					Albany	1.08	.95	.72	.51	Milwaukee .....	.38	.32	.25	.19
Dodge City	2.03	1.74	1.35	1.04	Buffalo .....	.78	.66	.52	.39	WYOMING—				
Great Bend	1.82	1.53	1.19	.96	New York	1.13	.99	.75	.53	Cheyenne	2.25	1.82	1.38	1.07
Kansas City	1.00	.82	.57	.40	Syracuse .....	.90	.79	.60	.42	Green River	3.19	2.69	2.23	1.79
Topeka	1.25	1.03	.74	.54	NORTH CAROLINA—					Lander	3.50	2.92	2.32	1.85
Wichita	1.63	1.39	1.08	.82	Asheville	1.82	1.60	1.37	1.07	Sheridan	3.13	2.62	2.12	1.70
					Raleigh	1.67	1.44	1.13	.84					
					Wilmington	1.67	1.40	1.09	.84					

INDEX

A	PAGE
Air Cocks.....	24
Air Valves.....	41
Altitude Gauges.....	41
Angle Valves.....	24
Asbestos Cement.....	22, 40
Asbestos Lead Joint Runners.....	21
Asbestos Paper.....	40
Asbestos Paste.....	40
Asbestos Pipe Covering.....	22
Augers, Spiral Earth.....	33
Automatic Injectors.....	25

B	PAGE
Balls, Rubber, Fuller Bibb.....	19
Ball Cocks.....	17
Ball Valves, Rubber.....	17
Bars, Towel.....	18
Basin Cocks.....	19
Basin Plugs.....	18
Basin Supply Pipes.....	22
Basin Tees.....	23
Basin Traps.....	21-22
Bath Cocks.....	19
Bath Sprays.....	18
Bath Stools.....	18
Bath Supply Pipes.....	22
Bath Tubs.....	11
Bath Tub Mats.....	18
Bath Tub Plugs.....	18
Bath Tub Seats.....	18
Bath Waste and Overflow.....	22
Bathroom Outfits.....	10
Bathroom Trimmings.....	18-19
Beading Tools.....	25
Bends, Pipe.....	20, 22-23
Benders, Pipe.....	21
Bibbs.....	19
Bibb Seat Dressers.....	21
Blast Furnaces.....	27
Blow Torches.....	27
Boilers, Hot Water.....	41
Boilers, Range.....	21
Boilers, Steam.....	21
Boiler Heaters, Range.....	28
Boiler Ratchets.....	25
Boiler Tube Headers.....	25
Borers, Tap.....	21
Bowls, Closet.....	17
Bowls, Lavatory, Wash.....	12-13
Boxwood Dressers.....	21
Brackets, Sink.....	16
Branches, Iron.....	22
Brass Ferrules.....	22
Brazing Torches.....	27
Brushes, Flue.....	25
Brushes, Massage.....	18
Brushes, Radiator.....	18
Brushes, Water Closet.....	12
Brush Attachment, Water Motor.....	22
Brush Trays.....	19
Bubbling Fountains.....	12
Buckets, Bucket Pump.....	32
Bucket Chain Pumps.....	32
Bucket Pumps, Purifying.....	32
Burring Reamers.....	26
Bushings, Brass Soldering.....	21
Bushings, Iron.....	23

C	PAGE
Calking Oakum.....	21
Calking Tools.....	21, 25
Caps, Driving, Pipe.....	33
Caps, Pipe.....	23
Caps, Ventilating.....	20
Cast Iron Pipe.....	20
Cast Iron Pipe Fittings.....	20, 23
Catch Basin Covers.....	16
Cattle Sprayers.....	34-35
Cement, Asbestos.....	22, 40
Cement, Graphite Pipe.....	23
Cesspools.....	16
Chains, Pump.....	32
Chain Pumps, Bucket.....	32
Chain Pump Buckets.....	32
Chain Pump Tubing.....	32
Chain Wrenches, Pipe.....	27
Check Valves.....	24
Chisels, Calking.....	21
Circulators, Hot Water.....	41
Cistern Covers.....	16
Cistern Pumps.....	30-32
Clamps, Hydrant.....	24
Clean Out Y.....	20
Clevises, Pipe Lifting.....	33
Clinker Tongs.....	40
Closets, Water.....	17
Closet Bends.....	20, 22
Closet Bowls.....	17

	PAGE
Closet Seats and Covers.....	17
Closet Tanks, Water.....	17
Closet Traps.....	20
Closet Valves.....	17
Clothes Posts.....	19
Coat Hooks.....	18
Cocks, Air.....	24
Cocks, Ball.....	17
Cocks, Basin.....	19
Cocks, Bath.....	19
Cocks, Hydrant.....	24
Cocks, Sill.....	19
Cocks, Steam.....	24
Cold Water Paint Sprayers.....	31
Comb and Brush Trays.....	13
Compressed Air Sprayers.....	25
Conductors, Water.....	33
Cotton Waste.....	24
Couplings, Iron.....	23
Couplings, Pump Tubing.....	31
Couplings, Rod.....	23
Covers, Tank.....	35
Crosses, Pipe.....	23
Cups, Grease.....	25
Cups, Oil.....	25
Cutters, Glass, Gauge.....	24
Cutters, Pipe.....	25
Cylinders, Pump, Well.....	33
Cylinders, Seating Tools.....	33

D	PAGE
Dampers, Furnace Smoke Pipe.....	40
Diaphragm Pumps.....	31
Dies, Pipe Threading.....	26
Disinfectant Sprayers.....	34-35
Drains, Floor.....	16
Drain Boards.....	16
Drain Board Mats.....	41, 18
Drainage Fittings, Soil Pipe.....	23
Dressers, Bibb Seat.....	21
Dressers, Boxwood.....	21
Drift Plugs.....	21
Drills, Hydraulic, Jetting.....	33
Drills, Ratchet Twist.....	26
Drill Sleeves, Ratchet.....	26
Drinking Fountains.....	12
Drive Well Points.....	33
Driving Caps, Pipe.....	33
Drum Traps.....	22
Duster Sprayers.....	35

E	PAGE
Ejectors.....	25
Elbows, Iron Pipe.....	23
Elbows, Radiator.....	41
Elbows, Sprayer.....	35
Electric Thermostats.....	40
Electric Water Supply Outfits.....	7
Engine Lubricators.....	25
Expanders, Tube.....	25
Expansion Tanks.....	41
Express Rates.....	43
Extension Rods, Sprayer.....	34-35
Extinguishers, Fire.....	32

F	PAGE
Faucets.....	19
Ferrules.....	22
Fire Extinguishers.....	32
Fixtures, Toilet Paper.....	22
Flanges, Floor.....	20
Flanges, Roof.....	20
Flange Unions.....	23
Floats, Tank.....	33
Floor Drains.....	16
Floor Tile.....	25
Flue Brushes, Scrapers.....	25
Foot Valves.....	33
Force Pumps.....	29-32
Force Pumps, Hand.....	32
Force Pumps, Power.....	7, 31-33
Fountains, Drinking.....	12
Freight Rates.....	44
Fuller Bibb Rubber Balls.....	19
Furnaces, Blast.....	27
Furnaces, Hot Air.....	33-40
Furnace Cement.....	40
Furnace Smoke Pipe and Fittings.....	40

G	PAGE
Galvanized Range Boilers.....	21
Galvanized Tanks.....	35
Gas Engine Lubricators.....	25
Gas Fitters' Tools.....	26-27
Gas Heaters, Water.....	28
Gas Pipe, Wrought.....	23
Gas Pliers.....	27
Gaskets, Gauge Glass.....	24
Gaskets, Rubber.....	23
Gasoline Blast Furnaces.....	23
Gasoline Heaters, Water.....	38
Gauges, Steam.....	24
Gauges, Water.....	24
Gauge Cocks.....	24
Gauge Cutters, Water Gauge.....	24
Glass Shelves.....	18
Glass Towel Bars.....	18

	PAGE
Glass Tubes, Water Gauge.....	24
Gauges, Wood.....	21
Governors	25
Graphite	25
Graphite Pipe Cement.....	23
Grease Cups.....	25
Grease Traps.....	16

H	PAGE
Heaters, Gas, Gasoline, Water.....	28
Heaters, Tank.....	28
Heating Systems.....	38-41
Hooks, Bathroom.....	18
Hooks, Shave.....	21
Hoppers, Slop.....	16
Hoppers, Water Closet.....	17
Hose, Spraying.....	34-35
Hose Bibbs.....	19
Hot Air Furnaces.....	38-40
Hot Water Boilers.....	41
Hot Water Heating Systems.....	38, 41
Hydrants.....	33
Hydrant Clamps.....	24
Hydrant Cocks.....	24
Hydrant Drills.....	24
Hydraulic Rams.....	33

I	PAGE
Increases, Pipe.....	20
Injectors, Automatic.....	25
Insecticide Sprayers.....	34-35
Inspirators.....	25
Iron Pipe and Pipe Fittings.....	20, 23
Iron Soil Pipe and Fittings.....	20, 23
Jaws, Vise.....	26
Jet Pumps.....	25
Jetting Drills.....	33
Joint Runners.....	21

K	PAGE
Kitchen Sinks.....	14-16

L	PAGE
Ladles, Pouring, Plumbers'.....	27
Laundry Tubes.....	19
Laundry Tub Faucets.....	19
Laundry Tub Tees.....	23
Lavatories.....	12-13
Lavatory Connections.....	22
Lavatory Traps.....	21-22
Lead, Pig, Sheet.....	22
Lead Bends.....	22
Lead Ferrules.....	22
Lead Joint Runners.....	21
Lead Pipe and Fittings.....	21-22
Lead Pipe Dressers.....	21
Lead Traps.....	21
Leathers, Plunger, Pump.....	23
Locknuts.....	23
Lubricating Graphite.....	25
Lubricators, Engine.....	25

M	PAGE
Mats, Drain Board, Bath Tub.....	15, 18
Melting Pots.....	27
Mirrors, Bathroom.....	18
Motors, Water.....	22
Motor Attachments, Brush.....	22

N	PAGE
Nipples, Iron.....	23
Nozzles, Blow Torch.....	27
Nuts, Lock.....	23

O	PAGE
Oakum.....	21
Offsets, Iron.....	20
Oil Cups.....	25

P	PAGE
Paint Sprayers, Nozzle.....	34-35
Pins, Turning.....	21
Pipes, Basin and Bath Supply.....	22
Pipe, Cast Iron.....	22
Pipe, Lead.....	21-22
Pipe, Soil.....	20
Pipe, Wrought.....	23
Pipe, Furnace Suck, and Fit.....	40
Pipe Bends.....	20, 22-23
Pipe Benders.....	21
Pipe Caps.....	23
Pipe Cement, Graphite.....	23
Pipe Connectors, Tank.....	23
Pipe Couplings, Iron.....	23
Pipe Covering.....	22
Pipe Cutters.....	26
Pipe Fitters' Tools.....	21, 26-27
Pipe Filings.....	19-25
Pipe Hangers.....	22

	PAGE
Pipe Holders.....	33
Pipe Hydrants.....	33
Pipe Increases.....	20
Pipe Lifting Clevises.....	33
Pipe Reducers.....	20, 23
Pipe Rests.....	20
Pipe Strainers.....	33
Pipe Straps.....	22
Pipe Taps and Reamers.....	26
Pipe Threading Dies and Stocks.....	26
Pipe Tongs.....	27
Pipe Vises.....	26
Pipe Wrenches.....	27
Pipeless Furnaces.....	39
Plant Sprayers.....	34-35
Plates, Ceiling, Floor.....	41
Pliers.....	27
Plugs, Basin, Bathtub.....	18
Plugs, Cast Iron.....	23
Plugs, Drift.....	21
Plumbers' Solder.....	21
Plumbers' Tools.....	21, 26-27
Plunger Leathers.....	33
Pneumatic Tank Outfits.....	2-7
Points, Drive Well.....	33
Pop Valves.....	27
Pots, Melting, Plumbers'.....	27
Pouring Ladles.....	27
Power Force Pumps.....	31-32
Power Sprayers.....	34-35
Pumps.....	7, 29-33
Pumps, Barrel.....	32
Pumps, Chain.....	32
Pumps, Diaphragm.....	31
Pumps, Force, Hand.....	32
Pumps, Force, Power.....	7, 31-33
Pumps, Jet.....	25
Pumps, Rotary.....	32
Pumps, Cleaning.....	32
Pumps, Sand.....	33
Pumps, Spraying.....	34-35
Pumps, Tank.....	32
Pumps, Windmill.....	29-31
Pump and Sink Outfits.....	14-15
Pump Buckets.....	32
Pump Chain.....	32
Pump Cylinders.....	33
Pump Cylinder Seating Tools.....	33
Pump Heads.....	33
Pump Leathers.....	33
Pump Repairs' Tools.....	25-27, 33
Pump Rods and Couplings.....	33
Pump Tubing.....	31-32

R	PAGE
Radiators.....	41
Radiator Brushes.....	18
Radiator Elbows.....	41
Radiator Valves.....	41
Rams, Hydraulic.....	21
Range Boilers.....	21
Range Boiler Heaters.....	28
Ratchets, Boiler.....	26
Ratchet Drills.....	26
Ratchet Drill Sleeves.....	26
Reamers, Pipe.....	26
Reducers, Pipe.....	23
Registers, Ceiling, Floor.....	39-40
Register Borders.....	40
Relief Valves, Water.....	24
Robe Hooks.....	18
Rods, Pump.....	20
Rod Couplings.....	33
Rotary Pumps.....	25
Rubber Balls, Fuller Bibb.....	19
Rubber Ball Valves.....	17
Rubber Gaskets.....	23-24
Rubber Plugs, Basin.....	18
Running Water Systems.....	2-7

S	PAGE
S Traps.....	20-22
S Wrenches.....	27
Safety Valves.....	24
Sand Pumps.....	33
Sanitary Branches.....	20
Sanitary Crosses.....	20
Scrapers, Flue.....	25
Screws, Pipe.....	23
Seats, Bathtub.....	18
Seats, Closet.....	23
Seating Tools, Cylinder.....	33
Service Tank Cocks.....	20
Service Cock Boxes.....	20
Shave Hooks.....	21
Sheep Sprayers.....	34-35
Sheet Lead.....	21
Shelves, Glass.....	18
Shower Baths.....	18
Shutoffs.....	19
Sill Cocks.....	19
Sinks.....	14-16
Sink Backs.....	16
Sink Brackets.....	16
Sink Drain Boards.....	21
Sink Traps.....	21-22
Smoke Pipe and Fittings, Fur.....	40
Slop Hoppers.....	16
Soap Holders.....	18
Sole Pipe and Fittings.....	20-23
Solder, Plumbers'.....	21
Soldering Bushings, Brass.....	21
Soldering Nipples.....	21
Soldering Unions.....	21
Sprays, Bath.....	18
Sprayers and Fittings.....	34-35
Spraying Nozzles.....	27, 35
Spraying Hose.....	34-35
Steam Boilers.....	21
Steam Cocks.....	24
Steam Fitters' Tools.....	26-27
Steam Fittings.....	24-25, 41
Steam Gauges.....	24
Steam Heating Systems.....	38, 41
Steam Pipe, Wrought.....	23

	PAGE
Steam Whistles.....	24
Stock and Dies, Pipe Thread.....	26
Stock and Dies, Pump Repair.....	26
Stockers.....	26
Stock Sprayers.....	34-35
Stools, Bath.....	18
Stops, Water Pipe.....	24
Stop Cocks.....	25
Stop Cock Boxes.....	20
Storage Tanks.....	36
Strainers, Pipe.....	33
Strainers, Spraying.....	35
Straps, Pipe.....	22
Strap Iron.....	22

T	PAGE
T Branches, Pipe.....	20
Tanks, Expansion.....	41
Tanks, Hot Water.....	21
Tanks, Steel Storage.....	36

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